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DIRECTORY OF AEROSPACE SAFETY SPECIALIZED INFORMATION SOURCES (Volume Two)

by Richard I. Rubinstein

James J. Pinto

Sanford Z. Meschkow

Science Information Services Department

Franklin Institute Research Laboratories

20th and the Parkway

Philadelphia, PA 19103

prepared for

Aerospace Safety Research and Data Institute

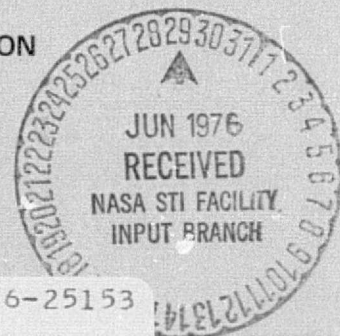
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16. Abstract <p>This directory is a companion volume to the <u>Directory of Aerospace Safety Specialized Information Sources</u> (NASA CR-121206, October 1973). The purpose of both publications is to make available to the aerospace and transportation safety community a handbook of organizations and experts in specific and well-defined areas of safety technology. It is designed for the safety specialist as an aid for locating both information sources and individual points of contact (experts) in engineering related fields. The file covers sources of data in aerospace design, tests, and operations, as well as information on hazard and failure cause identification, accident analysis, and materials characteristics. Other related areas include the handling and transportation of hazardous chemicals, radioactive isotopes, and liquified natural gases.</p> <p>These 159 organizations and consultants and approximately 580 staff members should provide technical information in the form of documentation, data and consulting expertise. These will be sources that have assembled and collated their information, so that it will be useful in the solution of engineering problems. One of the goals of the project is to provide a consolidated listing and description of information resources primarily in the United States that have and are willing to share data of value to the aerospace safety community.</p> <p style="text-align: center;">ORIGINAL PAGE IS OF POOR QUALITY</p>					
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INTRODUCTION

This Directory is a companion volume to the Directory of Aerospace Safety Specialized Information Sources, NASA CR-121206 (N74-10887) which is available from the National Technical Information Service, Springfield VA 22151.

The purpose of both publications is to make available to the aerospace and transportation safety community handbooks of organizations and experts in specific, well-defined areas of safety technology. It is designed for the safety specialist as an aid for locating both information sources and individual points of contact (experts) in engineering related fields.

The 159 organizations covered in this Supplement and the 171 organizations in the initial Directory, and their staff members, hopefully, should provide technical information in the form of documentation, data and consulting expertise. These will be sources that have assembled and collated their information, so that it will be useful in the solution of engineering problems. One of the goals of the project is to provide a consolidated listing and description of information sources located in the United States that have and are willing to share data of value to the aerospace and transportation safety community.

An Aerospace Safety Specialized Information Source was defined as an organization that satisfies the following requirements:

- a. Maintains a specialized collection or file of materials to aerospace safety.
- b. Regularly provides qualified users with information on a particular subject, or with referrals to outside experts.
- c. Has a responsibility to function as an Information Source; however, this responsibility does not have to be formalized as part of their charter.

The Directory and this Supplement include sources of data in aerospace design, tests, and operations, as well as information in hazard and failure cause identification, accident analysis, materials characteristics, and other related subject areas. These other safety-related information sources cover areas of vital interest to certain specialized aspects of aerospace safety. For example, the recent increase in the problems encountered transporting toxic and reactive chemicals, radioisotopes and other dangerous materials is the cause for the inclusion of a number of information sources on toxicology and hazardous cargo handling in the air, on water and by rail. Also, current work on cryogenic safety involving bulk handling of LNG tanker cargos accounts for sources that are concerned with marine safety. A parallel effort to include relevant sources of information on aircraft fire hazards and interior flammability accounts for the inclusion of sources on fire and flammability. Although the interests of aviation, aerospace, and ground support safety are of primary concern, the comprehensive coverage of the Directory and the Supplement will provide information of considerable value to safety professionals in many other fields.

Of the approximately 1500 potential sources assembled for review and analysis, 400 met the above criteria and were contacted as candidates for the Supplement. A feature of the Directory Supplement over our initial Directory is the increased number of sources that are safety consultants, university research laboratories, not-for-profit research institutes and corporate organizations. We acknowledge the cooperation of the System Safety Society, whose officers advised us in identifying a number of safety professionals in these organizations.

To present the contents of this Directory in an easy reference form, two indexes were developed using keyword terms to identify and highlight the expertise of the organizations and their staff members. To increase the usefulness of the Directory, the list of index terms used in this Supplement was enlarged and revised to match the latest revisions of the NASA, DDC and ASSE thesauri and brought into closer agreement with the vocabulary used by other NASA-ASRDI safety-related computerized information files. This will aid users of the Directory who intend to search for further information through ASRDI or the NASA and DDC information systems. These keywords were selected to describe these Information Sources and their Experts with meaningful terms that have a direct application to safety related problem areas.

It is recognized that the Directory and its Supplement are an incomplete listing of safety aerospace information sources. We realize that there are other well qualified organizations that are not included. A number of them requested their omission for various management reasons. It is apparent that serious information gaps still exist and your comments for candidates are encouraged and welcomed, both from the standpoint of organizations who have special information files, as well as from individuals who are recognized experts in specific areas of aerospace and transportation safety technology.

This handbook is one of a series of publications which are directories of information sources and points of contact for consultation on safety problems. They have been prepared under the management of the NASA Aerospace Safety Research and Data Institute (ASRDI). ASRDI has concentrated its safety projects and programs in selected areas and its published Directories of safety expertise reflect these fields:

- (a) NASA CR-2624, "Register of Hydrogen Technology Experts", 1975
- (b) NASA CR-134807, "Register of Specialized Sources for Information on Selected Fuels and Oxidizers", 1975
- (c) NASA CR-121149, "Directory of Workers in the Fire Field", 1973
- (d) NASA CR-134754, "Register of Experts for Information on Mechanics of Structural Failure", 1975
- (e) NASA CR-121201, "Register of Specialized Sources for Information on the Mechanics of Structural Failure", 1973
- (f) NASA CR-121206, "Directory of Aerospace Safety Specialized Information Sources", 1973
- (g) NASA CR-134929, "Directory of Aerospace Safety Specialized Information Sources", (Supplement), Volume 2, 1976

George Mandel
Program Manager, NASA-ASRDI

ADVISORY CENTER ON TOXICOLOGY (ACT)

ADDRESS: National Research Council
2101 Constitution Avenue
Washington, DC
20418

TELEPHONE: (202) 389-6751

DIRECTOR: Wands, R. C.

PARENT-SPONSOR-HOST AFFILIATION: National Research Council

YEAR INFORMATION SOURCE BEGAN: 1957

MISSION: To serve as a spokesman in international affairs for the United States professions of toxicology and industrial hygiene; to advise and assist federal agencies, including the Armed Forces on problems involving toxicology.

SUBJECT SCOPE: Toxicology; Hygiene and sanitation.

MAJOR SUBJECT TERMS: Toxicity; Industrial hygiene; Hygiene.

RESEARCH AND DEVELOPMENT ACTIVITIES: Recommends initiation of specific toxicological testing and research.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Wands, R. C.	Industrial Hygiene; Toxicity	(212) 389-6751

STAFF: Full-time - professional 9, nonprofessional 8, total 17; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies.

HOLDINGS: Books; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; advisory and consulting services; referrals; translations.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: Staff or members of affiliated organizations; government employees.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: All services free to qualified users.

DECEMBER 1975

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AERONUTRONIC FORD CORP. SAFETY ENGINEERING SECTION

ADDRESS: Aeronutronic Ford Corporation
 Attention: Safety Engineering Section
 Ford Road
 Newport Beach, CA
 92663

TELEPHONE: (714) 640-1500 ext 1421

DIRECTOR: Gordon, R. B.

PARENT-SPONSOR-HOST AFFILIATION: Ford Motor Company

YEAR INFORMATION SOURCE BEGAN: 1960

MISSION: To provide technical and administrative support to Aeronutronic Division management in assuring (1) a safe and healthy environment for Company personnel (2) appropriate protection of facilities, equipment and resources against accidental loss; (3) products and services which are safe for their intended uses; and (4) compliance with applicable customer, contractual, Federal, State and local codes, regulations and requirements pertaining to health, safety, dangerous materials and environmental protection.

SUBJECT SCOPE: Masers and lasers; Hygiene and sanitation; Missiles; Safety analysis.

MAJOR SUBJECT TERMS: Missiles; Safety analysis; Lasers; Toxicity; Hazardous materials; Industrial hygiene; Product safety.

RESEARCH AND DEVELOPMENT ACTIVITIES: Provides technical coordination of safety related research on hazardous characteristics of new products or materials used or developed by the Division. This includes new explosive items, propellant grains used for missile controls, hazardous substances used in advance technology research, laser systems and radioactive materials.

SPECIAL SCOPE FEATURES: Technical safety consulting or support effort may be arranged through negotiation and contract.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Gordon, R. B.	Product Safety; Hazardous Materials	(714) 640-1500 ext 1940
Sweningsen, W. B.	Lasers; Safety Analysis	(714) 640-1500 ext 1421
Beckett, T. A.	Industrial Hygiene; Toxicity	(714) 640-1500 ext 1422

STAFF: Full-time - professional 5, nonprofessional 1, total 6; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; reference lists/bibliographies.

REFERENCE AND QUERY SERVICES: Questions answered individually if not priority information.

USER QUALIFICATIONS: General technology community.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

AEROSPACE CORP., ENERGY & TRANSPORTATION DIVISION

ADDRESS: Aerospace Corporation
P.O. Box 92957
Los Angeles, CA
90009

TELEPHONE: (213) 648-5000

DIRECTOR: Greenberg, A. B.

YEAR INFORMATION SOURCE BEGAN: 1960

MISSION: As part of civil operations, the Energy and Transportation Division applies the corporation's technical expertise to the resolution of civil problems, especially in the areas of transportation, conservation of natural resources and the development of new energy sources.

SUBJECT SCOPE: Aircraft problems; Air facilities.

MAJOR SUBJECT TERMS: Environments; Air traffic control; Transportation; Structural engineering; Energy; Propulsion system performance.

RESEARCH AND DEVELOPMENT ACTIVITIES: Major research areas include the following: comprehensive plans for the Airport System of the State of Washington, development of an air traffic control computer simulation program, studies into the energy consumption aspects of transportation policy and diverse activities in the field of Intercity Transportation Planning.

SPECIAL SCOPE FEATURES: The Aerospace Corporation has collected an extensive nationwide data base for use in transportation studies. Area characteristics, including zonal population, income distribution, local access, and travel demand, were gathered for a large number of US cities. These are used in developing travel demand and modal split projections for the appropriate regions.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Sokolsky, S.	Transportation	(213) 648-5748
Raymond, L.	Structural Materials	(213) 648-5748

STAFF: Full-time - professional 40, nonprofessional 20, total 60; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; newsletters/trade literature; conference papers.

HOLDINGS: Books; reports and reprints; periodicals; standards and specifications; total number of titles 236,000.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; interlibrary loans; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: Immediate staff or members; government contractors.

USER RESTRICTIONS: Federal security clearance The Corporation is enjoined from nongovernment contract work.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

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AEROSPACE STRUCTURES INFORMATION AND ANALYSIS CENTER (ASIAC)

ADDRESS: Aerospace Structures Information and Analysis Center
Air Force Flight Dynamics Laboratory
Wright Patterson AFB, OH
45433

TELEPHONE: (513) 255-6688

DIRECTOR: Negaard, G. R.

PARENT-SPONSOR-HOST AFFILIATION: Air Force Flight Dynamics Laboratory

YEAR INFORMATION SOURCE BEGAN: 1973

MISSION: To provide quick response in depth literature searches, data retrieval and state of the art reviews in Aerospace Structures, and to provide state of the art solutions to structural problems.

SUBJECT SCOPE: Mechanics of structural failure; Aircraft problems.

MAJOR SUBJECT TERMS: Failure; Fatigue (materials); Structural failure; Stress analysis; Structural engineering.

SPECIAL SCOPE FEATURES: ASIAC maintains a library of aerospace structures related computer programs that are not available from other program dissemination organizations. These programs are available upon request. Limited search and information distribution available to non-government users.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Negaard, G. R.	Aircraft Problems; Structural Engineering	(513) 255-6688

STAFF: Full-time - professional 3, nonprofessional 1, total 4; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Technical reports and memoranda; newsletters/trade literature; conference papers.

HOLDINGS: Reports and reprints; periodicals; handbooks; total number of titles 7000 hard copy, 13,000 microfiche; range of years of total 1954-present.

DATA BANK RESOURCES:

Name or Acronym	Description of Contents	Range of Years	No. of Records
ASIAC	Aerospace structures	1954-1975	18,000
DDC			
NTIS			
Engineering Index			
COMPENDEX			

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches of DDC, NTIS, NASA, FTD; advisory and consulting services; bibliographic abstracts.

OTHER SERVICES: On-site use of collection; interlibrary loans; reproduction/publication services.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy; microfiche copy.

USER QUALIFICATIONS: Government contractors & agencies.

USER RESTRICTIONS: None to qualified users.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

AIRPORT OPERATORS COUNCIL INTERNATIONAL (AOCI)

ADDRESS: 1700 K Street, NW
Washington, DC
20006

TELEPHONE: (202) 296-3270

DIRECTOR: Ridgeway, G. H., Jr.

YEAR INFORMATION SOURCE BEGAN: 1948

MISSION: The main objective is to serve the public interest by promoting sound policies for financing, constructing, managing, operating, and developing airports.

SUBJECT SCOPE: Air facilities; Dangerous materials; Noise; Aircraft problems; Industrial safety manuals, codes, specifications, standards, etc..

MAJOR SUBJECT TERMS: Air pollution; Airports; Noise (sound); Transportation; Shipping regulations; Consumer protection; Industrial safety; Hazardous materials; Passengers.

RESEARCH AND DEVELOPMENT ACTIVITIES: Research and development is coordinated in the following fields: aircraft noise abatement; airport/environment compatibility; coordinated aviation system planning; convenient airport access; improved processing of passengers and cargo; better airport construction and design; effective economic planning and fiscal management; adequate and convenient air service; and air transportation security.

SPECIAL SCOPE FEATURES: The AOCI represents the governmental bodies responsible for the development and operation of the public air carrier airports in the United States and on five continents around the world. AOCI member airports enplane more than 90 percent of the U.S. domestic air traffic and virtually all of the international traffic.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Reilly, J. D.	Airports	(202) 296-3270
Corbett, J. J.	Passengers; Cargo	(202) 296-3270
Faley, J.	Passengers; Cargo; Airports; Security	(202) 296-3270
	Industrial Safety	
Duggan, L.	Airports; Airport Planning	(202) 296-3270
Coor, M. L.	Environmental Conditions; Legal	(202) 296-3270
	Liability	
Parrella, B. C.	Airports; Traffic; Statistics;	(202) 296-3270
	Economic Factors	
Oliphant, H. G.	Airports; Security	(202) 296-3270

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; statistical compilations; newsletters/trade literature, press releases; standards and specifications.

HOLDINGS: Books; hand books; reports and reprints; standards and specifications and federal and state regulations; statistical compilations; films and slides; airport plans and FAA advisory circulars.

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information; advisory and consulting services; referrals.

OTHER SERVICES: Conferences/symposiums; ad hoc committees.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

DECEMBER 1975

ORIGINAL PAGE IS
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ALLEGANY BALLISTICS LABORATORY (ABL)

ADDRESS: Allegany Ballistics Laboratory
Hercules Incorporated
P.O. Box 210
Cumberland, MD
21502

TELEPHONE: (304) 726-4500

DIRECTOR: Richardson, R. H.

PARENT-SPONSOR-HOST AFFILIATION: Hercules Inc.

YEAR INFORMATION SOURCE BEGAN: 1958

MISSION: To provide the Government and industry with a systems engineering method for hazards evaluation, risk analysis, and accident investigation and reliability analysis services using the Hercules-developed Hazards and Risk Control (HERC) techniques; conduct product testing for design verification and product warranty.

SUBJECT SCOPE: Reliability; Fire, explosion and detonations; Man-machine hazards; Structural materials limitations (metallic and nonmetallic); Propellants, fuel, lubricants, hydraulic fluids safety; Aerospace explosives, pyrotechnics and initiators; Dangerous materials; Safety analysis; Mathematics and statistics; Safety engineering; Laboratories, test facilities and test equipment; Research; Combustion and ignition; Rocket engines; Rocket propellants; General propulsion concepts.

MAJOR SUBJECT TERMS: Propellants; Fuels; Lubricants; Hydraulics; Fires; Explosions; Explosives; Pyrotechnics; Mathematics; Safety engineering; Reliability; Test equipment; Research and development.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performs safety related research in the areas of materials response (theory and test methods development primarily in sensitivity, flammability and explosion propagation); hazards and risk methodology; blast effects and damage criteria; fault tree analysis techniques; risk versus cost optimization.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Jones, M. L.	Chemistry	(304) 726-4500 ext 8159
Katz, M. J.	Fault Tree Analyses	(304) 726-4500 ext 623
Williams, G. M.	Materials; Explosives	(304) 726-4500 ext 8094
Hunt, R. G.	Materials; Tests	(304) 726-4500 ext 429
DeGiovanni, J.	Explosives	(304) 726-4500 ext 230
Gimler, J. R.	Propellants; Explosives	(304) 726-4500 ext 713
Albaugh, L. F.	Chemical Engineering	(304) 726-4500 ext 545
Pratt, T. H.	Explosives	(304) 726-4500 ext 275
Mull, L. H.	Electrical/Electronic Engineering	(304) 726-4500 ext 570
Sawyer, S. O.	Mechanical Engineering	(304) 726-4500 ext 8093
McBride, D.	Nuclear Engineering	(304) 726-4500 ext 732
Sutton, J. M.	Statistics; Explosives	(304) 726-4500 ext 296
Treadwell, L. S.	Explosives	(304) 726-4500 ext 598
Richardson, R. H.	Explosives; Safety Engineering	(304) 726-4500 ext 632

STAFF: Full-time - professional 17, nonprofessional 11, total 28; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; newsletters/trade literature.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; standards and specifications; graphics/tables; films and slides; total number of titles 11,000; range of years of total 1948-present.

ALLEGANY BALLISTICS LABORATORY (ABL)

DATA BANK RESOURCES:

Name or Acronym	Description of Contents	Range of Years	No. of Records
FARADA	Electrical Components	1960-present	5000
ROME	Non-Electrical Components	1960-1970	2000
HERCULES	Compability of Materials	1960-present	11,000
HERCULER	Physical Properties-Propellants	1958-present	2000
Materials Handbook			
HERCULES	Formulation and Material Response	1958-present	3000
Surveillance file	Propellant Aging Properties	1963-present	1000
Hercules	Toxicity Data Bank		

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; analytical studies; advisory and consulting services; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Not available.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

ORIGINAL PAGE IS
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ALUMINUM ASSOCIATION, INC. (AA)

ADDRESS: 750 Third Avenue
New York, NY
10017

TELEPHONE: (212) 972-1800

DIRECTOR: Goldsmith, S. L., Jr.

YEAR INFORMATION SOURCE BEGAN: 1933

MISSION: To serve the public as a source of non-commercial industry-wide information on aluminum and the aluminum industry.

SUBJECT SCOPE: Metals; Industrial safety manuals, codes, specifications, standards, etc..

MAJOR SUBJECT TERMS: Aluminum; Standards; Metallurgy; Information retrieval.

RESEARCH AND DEVELOPMENT ACTIVITIES: Functions include developing technical standards and technical data, collecting and publishing industry statistics, speaking for the industry before government and quasi-governmental bodies where an industry wide position is required, encouraging increased use of aluminum in specific markets through promotional and product-development programs, and conduction school programs and industry seminars.

SPECIAL SCOPE FEATURES: The Association membership embraces all US producers of primary ingot, most producers of sheet and plate and leading extruders, foundries, secondary smelters, forging firms and producers of aluminum electrical conductor. Approximately 100 percent of primary aluminum shipments and eighty two percent of semifabricated aluminum shipments are accounted for by Association member companies.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Alison, G. A.	Marketing	(212) 372-1800
Barr, J. W.	Standards	(212) 972-1800
Bresnen, D. H.	Information Retrieval	(212) 972-1800
Epstein, S. G.	Metallurgy	(212) 972-1800
Pritsky, W. W.	Metallurgy	(212) 972-1800

STAFF: Full-time - professional 22, nonprofessional 23, total 45; part-time - professional 3, nonprofessional 0, total 3.

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; standards and specifications; magnetic tape bibliographic data.

HOLDINGS: Abstracts/indexes; reports and reprints; standards and specifications; statistical compilations; films and slides; total number of titles 40,000 (World Aluminum Abstracts); range of years of total 1968-1975.

DATA BANK RESOURCES:

<u>Name or Acronym</u>	<u>Description of Contents</u>	<u>Range of Years</u>	<u>No. of Records</u>
World Aluminum Abstracts	Technical Literature in Aluminum Technology	1968-1975	40,000

REFERENCE AND QUERY SERVICES: Questions answered individually.

OTHER SERVICES: Reproduction/publication services.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy (World Aluminum Abstracts).

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

AMERICAN ASTRONAUTICAL SOCIETY (AAS)

ADDRESS: 6060 Duke Street
Alexandria, VA
22304

TELEPHONE: (703) 751-7323

DIRECTOR: Bolger, P. H.

YEAR INFORMATION SOURCE BEGAN: 1953

MISSION: To further the progress of space exploration and exploitation by encouraging the exchange of ideas and information among scientists and engineers.

SUBJECT SCOPE: Aeronautics; Astronomy and astrophysics; Space technology; Space vehicle problems.

MAJOR SUBJECT TERMS: Aeronautics; Spacecraft; Astronomy.

SPECIAL SCOPE FEATURES: 1. Space mechanics; 2. Earth resources; 3. Systems reliability and safety; 4. Impact predictions; 5. Space benefit to society; 6. Human factors in space.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Bolger, P. H.	Aeronautics	(703) 751-7323

STAFF: Full-time - professional 1, nonprofessional 2, total 3; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Periodicals/journals; newsletters/trade literature; conference papers.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; films and slides; range of years of total 1960-1975.

REFERENCE AND QUERY SERVICES: Selective dissemination of information; analytical studies.

OTHER SERVICES: Conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy; microfiche copy.

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

RECEIVED PAGE 1
OF 1000 PAGES

AMERICAN BUREAU OF SHIPPING (ABS)

ADDRESS: 45 Broad Street
New York, NY
10004

TELEPHONE: (212) 785-9800

DIRECTOR: Young, R. T.

YEAR INFORMATION SOURCE BEGAN: 1862

MISSION: The function of the ABS is the classification and survey of ships. The reason for this work is to save property and life at sea on a worldwide basis.

SUBJECT SCOPE: Mechanics of structural failure; Metals; Structural engineering; Industrial safety manuals, codes, specifications, standards, etc.; Containers and packaging; Navigation and guidance; Materials; Construction equipment, materials and supplies; Marine engineering.

MAJOR SUBJECT TERMS: Standards; Steels; Iron; Metallurgy; Structural engineering; Structural materials; Mechanical engineering; Propulsion system performance; Maintenance; Industrial safety; Materials tests; Safety equipment; Information retrieval; Shipping.

RESEARCH AND DEVELOPMENT ACTIVITIES: Research and development projects are directed toward the following: improve and extend the "Rules"; expedite and broaden design analysis; gather and catalogue hull, machinery and metallurgical information and experiences; and investigate actual and potential structural and mechanical problems.

SPECIAL SCOPE FEATURES: The principal work of the ABS is: 1. To establish Rules for the construction of hulls and machinery; 2. To analyze plans of vessels projected to be built or conversions of existing vessels; 3. To witness the testing of materials of construction for hull and machinery at places of manufacture; 4. To verify the building of the new hull and its main machinery, boilers and vital auxiliaries, and the conversion of existing vessels; 5. To survey the completed vessel through her economic life; 6. To carry out Load Line Surveys, Safety Equipment Surveys and to issue Tonnage Certificates and Construction Certificates; 7. To publish in the Record of the American Bureau of Shipping the essential details of hull and machinery of Bureau classed vessels and others; 8. To publish the Rules; 9. To publish the Guides; 10. To issue certificates of character for Bureau classed vessels; 11. To issue Cargo Gear Registers at the request of owners; 12. To represent the Bureau on many technical committees of the various standard making bodies; 13. To issue certificates for cargo containers; 14. To maintain a materials research laboratory; 15. To maintain its membership in the International Association of Classification Societies; 16. To record the performance of all classed vessels from the time of keel laying and during their classed life.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Wenzel, E. S.	Ship Hulls	(212) 785-9800
Ritola, A. P.	Ships	(212) 785-9800
Doherty, E. J.	Transportation; Shipping	(212) 785-9800
Yohe, R. E.	Shipping; Engineering	(212) 785-9800
Swenson, E. D.	Metallurgy	(212) 785-9800

INTERNAL PUBLICATIONS: Books; handbooks/manuals; technical reports; statistical compilations; newsletters/trade literature; standards and specifications; rules and guides.

HOLDINGS: Books and handbooks; standards and specifications; statistical compilations.

DATA BANK RESOURCES:

Name or Acronym	Description of Contents	Range of Years	No. of Records
American Bureau of Shipping Information Retrieval System (ABSIRS)	Owners builders and pertinent facts and characteristics about merchant vessels.		

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

AMERICAN FOUNDRYMEN'S SOCIETY (AFS)

ADDRESS: Golf and Wolf Roads
Des Plaines, IL
60016

TELEPHONE: (312) 824-0181

DIRECTOR: Sinnett, A. B.

YEAR INFORMATION SOURCE BEGAN: 1896

MISSION: To promote the advancement of the sciences related to the manufacture and utilization of metal casting, and to the ancillary problems of the total foundry environment, through research, education, and dissemination of technology.

SUBJECT SCOPE: Metals.

MAJOR SUBJECT TERMS: Mechanical properties; Metallurgy; High strength alloys; Environments; Foundries.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research and development related to foundry material and process technology and ecological problems pertaining thereto.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Sinnett, A. B.	Foundries	(313) 824-0181

STAFF: Full-time - professional 23, nonprofessional 18, total 41; part-time - professional 0, nonprofessional 2, total 2.

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation; translations; custom abstracting and indexing services.

OTHER SERVICES: On-site use of collection; reproduction/publication services; courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations; ad hoc permission; government employees; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users; charge for user outside organization.

DECEMBER 1975

ORIGINAL PAGE IS
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AMERICAN INST. OF AERONAUTICS AND ASTRONAUTICS, INC., TECH. INFORM. SERVICE (AIAA-TIS)

ADDRESS: Technical Information Service
750 Third Avenue
New York, NY
10017

TELEPHONE: (212) 867-8300

DIRECTOR: Meskel, T. J.

PARENT-SPONSOR-HOST AFFILIATION: NASA

YEAR INFORMATION SOURCE BEGAN: 1961

MISSION: To collect, process and announce scientific and technical information on world-wide aerospace research and to disseminate this knowledge to the international scientific community. Also publishes the semi-monthly journal, International Aerospace Abstracts (IAA).

SUBJECT SCOPE: All categories and subcategories.

MAJOR SUBJECT TERMS: Aeronautics; Chemistry; Materials; Earth sciences; Life sciences; Mathematics; Physics; Astronomy; Oceanography; Aerospace medicine; Information retrieval; Nuclear physics; Acoustics; Propulsion; Lasers; Aircraft safety; Medicine; Propellants; Structural engineering.

SPECIAL SCOPE FEATURES: Aerodynamics, air transportation and safety; aircraft topics include design, testing, performance, instrumentation, propulsion, power, stability and control; research and support facilities (air); astrodynamics, ground support systems and facilities (space) launch vehicles and space vehicles; space transportation, spacecraft communications, command, tracking, design, testing, performance, instrumentation, propulsion and power; composite materials; metallic materials; nonmetallic materials; propellants and fuels; fluid mechanics and heat transfer; instrumentation and photography. Literature dealing with aerospace safety assurance is collected from domestic and foreign literature sources.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Meskel, T. J.	Information Retrieval; Aerospace Engineering	(212) 867-8300

STAFF: Full-time - professional 82, nonprofessional 0, total 82; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Abstracts; indexes; periodicals/journals; newsletters/trade literature; reference lists/bibliographies.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; total number of titles 1,600.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; referrals.

OTHER SERVICES: On-site use of collection.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy; microfiche copy.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

AMERICAN LAFRANCE INC.

ADDRESS: 100 East LaFrance St.
Elmira, NY
14902

TELEPHONE: (607) 734-8181

DIRECTOR: Eainer, W. J.

PARENT-SPONSOR-HOST AFFILIATION: A-T-O Inc.

YEAR INFORMATION SOURCE BEGAN: 1932

MISSION: To design, manufacture and sell fire fighting equipment.

SUBJECT SCOPE: Fire, explosion and detonations; Life support.

MAJOR SUBJECT TERMS: Breathing apparatus; Fire fighting; Fire fighting equipment.

SPECIAL SCOPE FEATURES: Special equipment for the fighting of aircraft and airport fires.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Eainer, W. J.	Fire Fighting Equipment; Information Retrieval	(607) 734-8181

INTERNAL PUBLICATIONS: Newsletters/trade literature; reference lists/bibliographies; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; referrals.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

ARMED FORCES INSTITUTE OF PATHOLOGY

ADDRESS:

Washington, DC
20305

TELEPHONE: (202) 576-2891

DIRECTOR: Berdjis, Col. C. C. (Principal Investigator and editor)

MISSION: To study radiobiology and the pathological effects of radiation from external and internal emitters as various types of ionizing radiation become more widely used and make more intimate contact with the daily activities of society.

SUBJECT SCOPE: Radiobiology; Clinical medicine; Dangerous industrial radiation; Nuclear safety; Radioactivity; Isotopes; Physiology.

MAJOR SUBJECT TERMS: Ionizing radiation; Radiation; Irradiation; Radioactive sources; Physiology; Physiological hazards; Reactor safety; Electromagnetic radiation; Pathology; Medicine.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x1)
Berdjis, C. C.	Pathology; Medicine; Radiation; Nuclear Radiation	(202) 576-2891

DECEMBER 1975

ARMY ENVIRONMENTAL HYGIENE AGENCY, LASER-MICROWAVE DIVISION (USAZHA)

ADDRESS:

Aberdeen Proving Grounds, MD
21010

TELEPHONE: (301) 671-3932

DIRECTOR: Wagemann, R. T., LTC

YEAR INFORMATION SOURCE BEGAN: 1974

MISSION: To evaluate for development and design agencies the potential health hazards of equipment utilizing lasers and other optical source systems, and to provide guidance on measures which may be taken to avoid or prevent excessive exposure of personnel to optical radiation.

SUBJECT SCOPE: Masers and lasers; Optics; Protective equipment; Industrial safety manuals, codes, specifications, standards, etc.

MAJOR SUBJECT TERMS: Safety regulations; Lasers; Microwaves; Physiological hazards; Standards; Hygiene.

RESEARCH AND DEVELOPMENT ACTIVITIES: Research is performed in the general field of Optical Radiation Hazards.

SPECIAL SCOPE FEATURES: Conducts periodic comprehensive surveys of laser installations at least every three years. Surveys include evaluation of characteristics of laser equipment and activities at the site which may result in exposure of personnel, determination of interlocks, eye protection, warning and/or limiting devices and review of standing operating procedures and other controls related to personnel protection.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Slincy, D. H.	Lasers	(301) 671-3932

DECEMBER 1975

ARMY MATERIEL COMMAND SAFETY OFFICE (AMC)

ADDRESS: Commander
 US Army Materiel Command
 ATTN: AMCSF
 5001 Eisenhower Avenue
 Alexandria, VA
 22333

TELEPHONE: (202) 274-8848

DIRECTOR: Queen, W. G.

PARENT-SPONSOR-HOST AFFILIATION: Dept. of the Army

YEAR INFORMATION SOURCE BEGAN: 1962

MISSION: To direct and staff supervise the AMC Safety Program which includes provision of maximum safety consistent with operational requirements in the design of Army materiel; prevention of damage to Government property and interruption to essential operations; and elimination from the environment of those effects of AMC operations which might otherwise represent a hazard to the civilian populace. Exercises operational control over the AMC Field Safety Activity.

SUBJECT SCOPE: Nuclear safety; Ammunition, explosives and pyrotechnics; Weapon effects; Cryogenic safety; Dangerous materials; Industrial safety manuals, codes, specifications, standards.

MAJOR SUBJECT TERMS: Safety engineering; Physiological hazards; Compressed gas; Liquified gases; Chemical hazards; Hazardous materials; Aircraft safety; Pyrotechnics; Reactor safety; Safety analysis; Radiation effects.

RESEARCH AND DEVELOPMENT ACTIVITIES: Active R&D primarily in explosive safety field.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Hawes, J. M.	Chemical Hazards; Explosives	(202) 274-8855
Mothersbaugh, L. L.	Safety Analysis	(202) 274-8849
Queen, W. G.	Explosives	(202) 274-8849
Schelhorn, C. L., LTC	Aircraft Safety	(202) 274-8851
Taras, D. M.	Industrial Safety	(202) 274-8868
Wells, H. E.	Nuclear Power Plants	(202) 274-8855
Lloyd, J. D.	Information Retrieval	(202) 274-8870

STAFF: Full-time - professional 14, nonprofessional 4, total 18; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; technical reports.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; referrals.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy if not proprietary.

USER QUALIFICATIONS: Government employees; government contractors, first preference to Army items.

USER RESTRICTIONS: Federal security clearance; none on unclassified.

PRICING AND SERVICES CHARGES: All services free to qualified users.

DECEMBER 1975

ARTHUR D. LITTLE, SAFETY AND FIRE TECHNOLOGY UNIT (ADL)

ADDRESS: Acorn Park
Cambridge, MA
02140

TELEPHONE: (517) 864-5770

DIRECTOR: Allan, D. S.

YEAR INFORMATION SOURCE BEGAN: 1965

MISSION: As part of ADL, the Safety and Fire Technology Unit undertakes applied research and engineering analyses in the fields of safety and fire technology.

SUBJECT SCOPE: Fire, explosion and detonations; Cryogenic safety; Propellants, fuels, lubricants, hydraulic fluids safety; Safety analysis; Safety engineering; Nuclear safety; Computers; Power sources; Dangerous materials; Laboratories, test facilities and test equipment; Combustion and ignition.

MAJOR SUBJECT TERMS: Materials tests; Test equipment; Fire fighting; Accident investigation; Cryogenic fluid safety; Liquified gases; Aircraft safety; Shipping regulations; Environments; Air pollution; Missiles; Safety analysis; Reactor safety; Hazardous materials; Fire prevention; Explosions; Fires; Fire hazards; Propellants; Fuels.

RESEARCH AND DEVELOPMENT ACTIVITIES: Research and development in the areas of state-of-the-art safety information relative to the storage and transport of hazardous materials including LNG, liquified hydrogen, and anhydrous ammonia; design and development of a chemical hazard response information system (CHRIS); analysis of safety of gas distribution systems; application of risk management to hazardous materials; development of draft standards for occupational health and safety; fire investigations and fire prevention.

SPECIAL SCOPE FEATURES: Work in the safety of hazardous materials includes (1) evaluation of the characteristics of fires resulting from different potential accident situations and prediction of the thermal hazards that would result, (2) evaluation of the methods on preventing, suppressing, and extinguishing fires, (3) recommendation of fire protection systems and methods and (4) risk analyses including failure mode and consequence assessment. Work on development of chemical hazards response from information system involves gathering of physical, chemical, and health data on 900 chemicals; development of analytical models for hazard assessment of all chemicals; and the delineation of methods of responding to spills.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Allan, D. S.	Safety Analysis; Hazardous Materials	(607) 864-5770 ext 831
Attalah, S.	Fire Protection	(607) 864-5770 ext 828
Bastress, E. K.	Combustion	(607) 864-5770 ext 883
Drake, E. M.	Cryogenic Fluid Safety	(607) 864-5770 ext 479
Kalelkar, A. S.	Safety Analysis	(607) 864-5770 ext 872
Partridge, L. J.	Industrial Hygiene	(607) 864-5770 ext 888
Wilson, R. P.	Combustion	(607) 864-5770 ext 806
Howarth, J. T.	Fire Hazards	(607) 864-5770 ext 2169
Milgrom, J.	Fire Hazards	(607) 864-5770 ext 2733
Sidman, K. R.	Combustion	(607) 864-5770 ext 2387

STAFF: Full-time - professional 15, nonprofessional 5, total 20; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Technical reports; conference papers; reference lists/bibliographies.

ARTHUR D. LITTLE, SAFETY AND FIRE TECHNOLOGY UNIT (ADL)

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides; total number of titles 20,000.

REFERENCE AND QUERY SERVICES: Selective dissemination of information; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

ATLAS TESTING LABORATORIES, INC.

ADDRESS: 6929 E. Slauson Avenue
Los Angeles, CA
90040

TELEPHONE: (213) 685-4242 (213) 722-8810

DIRECTOR: Evans, T. H.

YEAR INFORMATION SOURCE BEGAN: 1950

MISSION: To support the aerospace and other industries together with their contractors regarding technical information, consultation and investigative experts in the fields of ferrous and non-ferrous metallurgy, according to the requirements, specifications and criteria of the user.

SUBJECT SCOPE: Mechanics of structural failure; Structural materials limitations (metallic and non-metallic); Cryogenic safety; Corrosion; Chemistry.

MAJOR SUBJECT TERMS: Chemistry; Chemical engineering; Mechanical engineering; Metallurgy; Fatigue (materials); Fabrication; Corrosion; Stress analysis; Materials tests; Cryogenic fluid safety.

RESEARCH AND DEVELOPMENT ACTIVITIES: Supports research in basic and applied metallurgical sciences.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Dickason, J.	Tests	(213) 685-4242
Young, L.	Chemistry	(213) 685-4242
Foppe, E.	Tests	(213) 685-4242
Caugherty, C.	Metallurgy	(213) 685-4242
Wziatek, T.	Fracture Mechanics	(213) 685-4242
Tiner, N.	Corrosion; Fracture Mechanics	(213) 685-4242

STAFF: Full-time - professional 20, nonprofessional 20, total 40; part-time - professional 4, nonprofessional 0, total 4.

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; reference file brochures.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Interlibrary loans; chemical instrumental analyses; Mechanical testing; Metallurgical investigations; Product certification; Sample preparation.

USER QUALIFICATIONS: General technology community; government employees; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services, price schedule available on request.

DECEMBER 1975

ORIGINAL PAGE IS
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AUBURN UNIV., MATERIALS ENGINEERING DEPT.

ADDRESS: Auburn University
Auburn, AL
36830

TELEPHONE: (205) 826-4820

DIRECTOR: Jemian, W. A.

MISSION: To engage in programs of education, research, and public service in the general area of materials engineering, especially as it applies to the principles of materials science.

SUBJECT SCOPE: Fire, explosion and detonations; Adhesives and seals; Composite materials; Bioengineering; Mechanics of structural failure; Structural materials limitations (metallic and nonmetallic); Structural engineering.

MAJOR SUBJECT TERMS: Medicine; Aerospace medicine; Structural failure; Mechanical engineering; Materials; Adhesives; Failure; Fires; Explosions; Structural engineering.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performed sponsored research for the U. S. Army Aeromedical Research Laboratory, Fort Fucker, Alabama, the Army Missile Command, Redstone Arsenal, Alabama, the Environmental Protection Agency, Atlanta, Georgia.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Hall, D.	Fires; Explosions; Textiles	(205) 826-4123
Jemian, W.	Failure Analysis; Life Sciences	(205) 826-4820
Maynor, H. W., Jr.	Failure Analysis; Structural Failure	(205) 826-4820
Wilcox, R. C.	Failure Analysis; Structural Failure	(205) 826-4820

STAFF: Full-time - professional 8, nonprofessional 1, total 9; part-time - professional 0, nonprofessional 0, total 0.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

AUSTIN RESEARCH ENGINEERS, INC. (ARE)

ADDRESS: 5706 Bee Cave Road
Austin, TX
78746

TELEPHONE: (512) 327-3520

DIRECTOR: Treybig, H. J.

MISSION: To provide specialized engineering, research and testing services in many phases of civil engineering and transportation for government, industry, consulting engineers and other agencies.

SUBJECT SCOPE: Soil mechanics; Air facilities; Structural engineering; Structural materials limitations (metallic and nonmetallic); Mechanics of structural failure; Civil engineering.

MAJOR SUBJECT TERMS: Systems engineering; Structural engineering; Earth sciences; Structural materials; Airports; Civil engineering; Pavements.

RESEARCH AND DEVELOPMENT ACTIVITIES: Current fields of research are in pavement design and evaluation, materials and soil mechanics, transportation and traffic, aviation and airports and structures and structural analysis.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Hudson, W. P.	Pavements; Systems Engineering	(512) 327-3520
McCullough, B. F.	Pavements; Systems Engineering	(512) 327-3520
Treybig, H. J.	Structural Engineering	(512) 327-3520
Fauhut, J. B.	Structural Engineering	(512) 327-3520
Finn, P.	Asphalt; Pavements	(512) 327-3520
Smith, P.	Construction; Earth Sciences; Mechanical Engineering	(512) 327-3520

STAFF: Full-time - professional 5, nonprofessional 4, total 9; part-time - professional 4, nonprofessional 2, total 6.

INTERNAL PUBLICATIONS: Abstracts; technical reports.

HOLDINGS: Reports and reprints; periodicals; films and slides.

REFERENCE AND QUERY SERVICES: State-of-the-art reviews; analytical studies; advisory and consulting services.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy (when available).

USER QUALIFICATIONS: General technology community; immediate staff or members; government employees; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

AVIATION SAFETY INSTITUTE (ASI)

ADDRESS: Box 304
Worthington, OH
43085

TELEPHONE: (614)885-4242

DIRECTOR: Galipault, J. B.

YEAR INFORMATION SOURCE BEGAN: 1973

MISSION: The Aviation Safety Institute is a rigorously independent, integrated research organization able to approach safety from all perspectives, collect and store information, analyze, pin-point, research and solve problems, then disseminate its findings.

SUBJECT SCOPE: Safety analysis; Aircraft flight instrumentation; Industrial safety manuals; Aircraft problems.

MAJOR SUBJECT TERMS: Standards; Safety regulations; Accident prevention; Safety engineering; Air traffic control; Flight paths; Radar; Flight control; Civil aviation; Human factors engineering; Aircraft safety.

RESEARCH AND DEVELOPMENT ACTIVITIES: ASI has initiated: a nationwide safety data system that provides immediately practical information; work on safety standards based on current research; studies of risk rating procedures for underwriters, based on hard data.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Galipault, J. B.	Aircraft Safety	(614) 885-4242

STAFF: Full-time - professional 2, nonprofessional 0, total 2; part-time - professional 10, nonprofessional 5, total 15.

INTERNAL PUBLICATIONS: Technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; standards and specifications.

HOLDINGS: Reports and reprints; periodicals; statistical compilations; films and slides; total number of titles 5; range of years of total 3.

DATA BANK RESOURCES:

Name or Acronym	Description of Contents	Range of Years	No. of Records
ASI STAT	Unsafe Acts-Conditions	2-4	12,000+
EARS	Error Analysis and Rating System	1-0	5,000+

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information; analytical studies; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community (aviation) ; immediate staff or members; staff or members of affiliated organizations; ad hoc permission; government employees.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

AVIATION SIMULATIONS INTERNATIONAL (ASI)

ADDRESS: P.O. Box 358
Huntington, NY
11743

TELEPHONE: (516) 271-6476

DIRECTOR: Joline, E. S..

YEAR INFORMATION SOURCE BEGAN: 1970

MISSION: Aviations Simulations International specializes in the development and application of simulation, mathematical modeling, and operations research techniques for system planning applications.

SUBJECT SCOPE: Operations research; Miscellaneous detection; Air facilities; Information theory (coding).

MAJOR SUBJECT TERMS: Aircraft safety; Air traffic control; Detectors; Civil aviation; Flight simulation.

RESEARCH AND DEVELOPMENT ACTIVITIES: Research and development in the following areas: airport/airspace simulation, systems safety, and failure/repair concepts and process optimization.

SPECIAL SCOPE FEATURES: Expertise in the areas of systems safety applications to launch vehicles, manned space vehicles and the design of automatic diagnosis and decision equipment.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Joline, E. S.	Flight Simulation	(516) 271-6476

INTERNAL PUBLICATIONS: Technical reports; periodicals/journals.

HOLDINGS: Reports and reprints; periodicals.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

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AVIATION SYSTEMS COMMAND REFERENCE LIBRARY (AVSCOM)

ADDRESS: US Army Aviation Systems Command
 ATTN: ANSAV-ZDR
 PO Box 209
 St. Louis, MO
 63166

TELEPHONE: (314) 268-3764

DIRECTOR: Levett, W. L.

PARENT-SPONSOR-HOST AFFILIATION: US Army Materiel Command

YEAR INFORMATION SOURCE BEGAN: 1954

MISSION: To acquire, catalog, classify, process, and review administrative, scientific, and technical publications in support of the command's mission and functions.

SUBJECT SCOPE: Aircraft; Aeronautics; Structural engineering; Reliability.

MAJOR SUBJECT TERMS: Aircraft problems; Stress analysis; Flight control; Maintenance; Inspection.

RESEARCH AND DEVELOPMENT ACTIVITIES: Support of Army activities in researching Army aircraft procurement, and maintenance systems.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Levett, W. L.	Aeronautics	(314) 268-3764
Liston, B. W.	Aeronautics	(314) 268-3764

STAFF: Full-time - professional 3, nonprofessional 5, total 8; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Abstracts; indexes; statistical compilations; periodicals/journals; reference lists/bibliographies; standards and specifications; magnetic tape bibliographic data.

HOLDINGS: Books 5,500; abstracts/indexes; reports and reprints 26,000; periodicals 45,100; reference lists/bibliographies; standards and specifications 87,000; catalogs: 15,000; total number of titles 178,600.

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information; state-of-the-art reviews; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; interlibrary loans; reproduction/publication services; courses/workshops.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy; microfilm copy; microfiche copy.

USER QUALIFICATIONS: Staff or members of affiliated organizations; government employees; government contractors.

USER RESTRICTIONS: Federal security clearance; registration with DDC.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

BARSON, J. M., CONSULTANT

ADDRESS: U. S. Steel Research Laboratory
M.S. 78
Monroeville, PA
15145

TELEPHONE: (412) 351-3100

SUBJECT SCOPE: Metals; Corrosion; Mechanics of structural failure; Structural materials limitations (metallic and nonmetallic); Structural engineering.

MAJOR SUBJECT TERMS: Metallurgy; Materials; Steels; Fatigue (materials); Corrosion; Structural engineering.

RESEARCH AND DEVELOPMENT ACTIVITIES: Dr. Barson is responsible for analytical and experimental studies in the area of mechanical behavior of steels and for developing experimental and analytical procedures to evaluate the behavior of materials, weldments and structural details in the areas of fracture, fatigue, and corrosion fatigue.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Barson, J. D.	Steels; Structural Materials	(412) 351-3100

REFERENCE AND QUERY SERVICES: Advisory and consulting services.

DECEMBER 1975

BARTLESVILLE ENERGY RESEARCH CENTER (ERDA)

ADDRESS: P.O. Box 1398
Bartlesville OK
74003

TELEPHONE: (918) 336-2400

DIRECTOR: Ball, J. S.

PARENT-SPONSOR-HOST AFFILIATION: Energy Research and Development Administration

YEAR INFORMATION SOURCE BEGAN: 1918

MISSION: To conduct such programs of research as are necessary to inform the government on technological developments, and to stimulate the private sector in the production of liquid and gaseous fuels and chemical raw materials in a manner that reduces waste, conserves resources, and ensures that petroleum-based products are used and disposed of without objectionable social and environmental costs.

SUBJECT SCOPE: Thermodynamics; Chemistry; Jet and gas turbine engines; Fuels; Mining engineering; Geology and mineralogy; Oils, lubricants and hydraulic fluids; Nuclear instrumentation.

MAJOR SUBJECT TERMS: Gas detectors; Mining; Electronics; Thermodynamics; Fuels; Engines; Chemistry; Waste disposal; Oils; Liquified gases.

RESEARCH AND DEVELOPMENT ACTIVITIES: Current projects are in the fields of petroleum recovery; thermodynamic properties of hydrocarbons; chemistry and refining of petroleum and synthetic fuels; and automotive engine-fuel relationships.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Thompson, C. J.	Fuels	(918) 336-2400 ext. 204
Whisman, M. L.	Lubricants	(918) 336-2400 ext. 251
Collins, A. G.	Earth Sciences; Oils	(918) 336-2400 ext. 282
Johansen, R. T.	Oils; Earth Sciences	(918) 336-2400 ext. 206
Armstrong, F. E.	Gas Detectors	(918) 336-2400 ext. 278
Dousin, D. R.	Thermodynamics	(918) 336-2400 ext. 210
Hurn, R. W.	Engines	(918) 336-2400 ext. 253

STAFF: Full-time - professional 74, nonprofessional 98, total 172; part-time - professional 1, nonprofessional 44, total 45.

INTERNAL PUBLICATIONS: Indexes; technical reports; newsletters/trade literature; conference papers.

HOLDINGS: Books 13,000; abstracts/indexes; reports and reprints; periodicals 200; total number of titles 3,600; range of years of total 1918-date.

DATA BANK RESOURCES:

Name or ACRONYM	Description of Contents	Range of Years	No. of Records
STORET	Water analyses		50,000
Crude oil analyses		50	80,000

REFERENCE AND QUERY SERVICES: Questions answered individually.

OTHER SERVICES: On-site use of collection; accession of new acquisition lists; interlibrary loans; conferences/symposiums.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

DECEMBER 1975

BATTELLE MEMORIAL INST., LIBRARY AND INFORMATION SERVICES

ADDRESS: Battelle Memorial Institute
Pacific Northwest Laboratory
PO Box 999
Richland, WA
99352

TELEPHONE: (509) 942-1111 ext 3611

DIRECTOR: Snyder, W. A.

YEAR INFORMATION SOURCE BEGAN: 1948

MISSION: To serve the information needs of US Energy Research and Development Administration at the Hanford, Washington, plant.

SUBJECT SCOPE: Nuclear safety; Nuclear science and technology; Materials; Metals; Mathematical sciences; Physics; Chemistry.

MAJOR SUBJECT TERMS: Nuclear physics; Nuclear engineering; Reactor safety; Environments; Information retrieval; Physics; Chemistry; Mathematics; Metallurgy; Materials.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Snyder, W. A.	Information Retrieval	(509) 942-1111 ext 3611

STAFF: Full-time - professional 13, nonprofessional 24, total 37; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Reference lists/bibliographies.

HOLDINGS: Books 40,000; reports and reprints 250,000; periodicals 2,000.

REFERENCE AND QUERY SERVICES: Petrospective searches; referrals.

OTHER SERVICES: Interlibrary loans.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy; microfiche copy.

DECEMBER 1975

BECKER, HERBERT, CONSULTANT

ADDRESS: 80 Boulder Road
Newton Center, MA
02159

TELEPHONE: (617) 969-6974

MISSION: To support industry with technical information and consultation on structures, materials and design problems; to identify areas where safety problems and technology voids exist and to initiate research programs in these problem areas; to author and compile state-of-the-art and summary publications in areas of concern.

SUBJECT SCOPE: Mechanics of structural failure; Structural materials limitations (metallic and nonmetallic); Cryogenic safety; Aircraft problems; Safety analysis; Specifications and standards.

MAJOR SUBJECT TERMS: Safety engineering; Cryogenic fluid safety; Structural failure; Structural engineering; Structural materials; Aerospace engineering; Safety analysis; Fatigue (materials); Standards.

RESEARCH AND DEVELOPMENT ACTIVITIES: Perform research projects on pressure vessels, ships and machinery.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Becker, H.	Structural Engineering; Structural Materials	(617) 969-6974

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports.

REFERENCE AND QUERY SERVICES: Advisory and consulting services.

DECEMBER 1975

BENET LABORATORIES, TECHNICAL INFORMATION SERVICES OFFICE (TISO)**ADDRESS:**Watervliet, NY
12019**TELEPHONE:** (518) 273-4610**DIRECTOR:** Vrooman, G. K.**PARENT-SPONSOR-HOST AFFILIATION:** Watervliet Arsenal**MISSION:** To specialize in material on the research and development of the US Army's conventional weapons.**SUBJECT SCOPE:** Ordnance; Mathematical sciences; Composite materials; Thermodynamics; Solid state physics; Physical and general chemistry; Mechanics; Metals.**MAJOR SUBJECT TERMS:** Physics; Thermodynamics; Chemistry; Mathematics; Materials; Metallurgy; Information retrieval.**STAFF SUBJECT SPECIALISTS:**

Name	Subject Specialty	Tel. No. and Ext. (x)
Vrooman, G. K.	Information Retrieval	(518) 273-4610

STAFF: Full-time - professional 5, nonprofessional 2, total 7; part-time - professional 0, nonprofessional 0, total 0.**INTERNAL PUBLICATIONS:** Abstracts; indexes; reference lists/bibliographies, accession lists.**HOLDINGS:** Books 9,900; reports and reprints.**REFERENCE AND QUERY SERVICES:** Retrospective searches; referrals; custom abstracting and indexing services; SDI services.**OTHER SERVICES:** Interlibrary loans; reproduction/publication services.**PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST:** Microfilm copy; microfiche copy.**USER QUALIFICATIONS:** Government employees.**USER RESTRICTIONS:** Federal security clearance.

DECEMBER 1975

ORIGINAL PAGE IS
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BOEING AEROSPACE CO., EXPERIENCE ANALYSIS CENTER

ADDRESS: Boeing Aerospace Company
P.O. Box 3999
Seattle, WA
98124

TELEPHONE: (206) 655-1941

DIRECTOR: Herrold, G. R.

MISSION: To provide support to all Boeing Aerospace Company programs, and also to conduct data exchange with other divisions, companies and government agencies.

SUBJECT SCOPE: Missile technology; Safety analysis; Reliability; Mathematical sciences; Electronics and electrical engineering; Aircraft problems; Space vehicle problems; Atmospheric sciences.

MAJOR SUBJECT TERMS: Mechanical engineering; Aerospace engineering; Reliability; Safety analysis; Mathematics; Electronics; Missiles; Aircraft problems; Information retrieval; Spacecraft.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Herrold, G. R.	Information Retrieval	(206) 655-1941

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; graphics/tabular materials.

HOLDINGS: Books; reports and reprints; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides; total number of titles 115,000.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Interlibrary loans.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: Registration with DDC.

PRICING AND SERVICES CHARGES: Charge for user outside organization.

DECEMBER 1975

BOEING AEROSPACE CO., PRODUCT AND SYSTEM SAFETY ORGANIZATION

ADDRESS: P.O. Box 3999-Mail Stop 8A-83
Seattle, WA
98124

TELEPHONE: (206) 773-1270

DIRECTOR: Trettin, H. D.

YEAR INFORMATION SOURCE BEGAN: 1961

MISSION: To provide the Boeing Aerospace Company with technical and managerial leadership in product and system safety, that will result in product safety commensurate with the functional use and cost-effectiveness of the product.

SUBJECT SCOPE: Safety analysis; Space vehicle problems; Materials; Aircraft problems; Nuclear safety; Reliability; Dangerous materials; Man-machine hazards.

MAJOR SUBJECT TERMS: Personnel development; Safety engineering; Transportation; Materials; Fire prevention; Missiles; Structural engineering; Shock; Safety engineering; Reliability; Explosives; Propulsion system performance; Nuclear reactors; Accidents; Safety analysis; Safety procedures; Safety equipment; Shielding; Aerospace engineering; Stress analysis; Product safety; Systems engineering.

RESEARCH AND DEVELOPMENT ACTIVITIES: Research in safety analysis techniques; structural safety; space safety; human factors; surface transportation and nuclear reactor safety.

SPECIAL SCOPE FEATURES: In conjunction with system safety activities performs the following safety tasks; system safety program plan, preliminary hazard analysis, fault tree analysis, operational hazard analyses and design reviews.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Trettin, H. D.	Product Safety; Systems Engineering	(206) 773-1270

STAFF: Full-time - professional 95, nonprofessional 0, total 95; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; reference lists/bibliographies.

HOLDINGS: Reports and reprints; periodicals; standards and specifications.

DATA BANK RESOURCES:

Name or Acronym	Description of Contents	Range of Years	No. of Records
	Materials in System Safety Reliability, Maintainability and Design Engineering		35,000

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy if not proprietary.

USER QUALIFICATIONS: General technology community; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

BOEING AEROSPACE CO., SAFETY ENGINEERING

ADDRESS: P.O. Box 58747
Houston, TX
77058

TELEPHONE: (713) 488-0910 ext 621

DIRECTOR: O'Tyson, C.

PARENT-SPONSOR-HOST AFFILIATION: NASA

YEAR INFORMATION SOURCE BEGAN: 1964

MISSION: To support Johnson Space Center, NASA, in performing safety analyses, developing safety requirements, and assessing operational safety for manned space vehicles; support hardware and on-board experiments/crew equipment to identify potential hazards. Safety support also is provided in manned test operations. Special studies to evaluate risks associated with identified hazards are performed. Methods of eliminating or controlling hazards are determined. In addition, safety analyses are conducted on equipment being developed by the JSC for use in nonaerospace applications.

SUBJECT SCOPE: Safety analysis; Fire, explosion and detonations; Man-machine hazards; Extraterrestrial environmental hazards; Space vehicle problems; Industrial safety manuals, codes, specifications, standards; Dangerous materials.

MAJOR SUBJECT TERMS: Safety engineering; Transportation; Fire hazards; Operations research; Aerospace engineering; Electric batteries; Radiation effects; Reactor safety; Safety analysis; Lightning; Industrial safety; Physiological hazards; Environments; Safety engineering.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performed special safety studies on biomedical instrumentation and apparatus for nonaerospace applications; performed safety analyses on major transportation systems; developed and improved techniques for performing hazard analyses.

SPECIAL SCOPE FEATURES: Expertise in safety logic diagram and other hazard analysis techniques; fire, explosion, and detonations; space vehicle safety problems; radiation; flammable and toxic materials, safety requirements; manned test operations safety; space environment hazards; electrical shock protection; battery safety; industrial safety; nuclear safety.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
O'Tyson, C.	Systems Engineering	(713) 488-0910 ext 621
McMurdo, R. B.	Systems Engineering	(713) 488-0910 ext 231

STAFF: Full-time - professional 33, nonprofessional 6, total 39; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; conference papers.

HOLDINGS: Reports and reprints; reference lists/bibliographies; standards and specifications.

DATA BANK RESOURCES:

Name or Acronym	Description of Contents	Range of Years	No. of Records
SRQA Document Index	Safety, Reliability & Quality Assurance Technical Data	1964-	170,000

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; advisory and consulting services; referrals; bibliographic abstracts.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy if not proprietary.

USER RESTRICTIONS: None for unclassified material (NASA data release approval required).

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

BOEING AEROSPACE CO., SNEAK CIRCUIT ANALYSIS GROUP

ADDRESS: P.O. Box 58747
Houston, TX
77058

TELEPHONE: (713) 488-0910

DIRECTOR: Heuer, D. A.

YEAR INFORMATION SOURCE BEGAN: 1967

MISSION: The development and implementation of a formalized computer aided electrical systems analysis technique to assure trouble free operation of electrical hardware. To uncover latent circuit paths (sneak circuits that are missed by testing and other analysis techniques) which will result in unexpected modes of operation.

SUBJECT SCOPE: Miscellaneous detection; Computers; Reliability; Electrical subsystems; Electronic and electrical engineering.

MAJOR SUBJECT TERMS: Safety equipment; Quality control; Reliability; Inspection; Electrical/electronic engineering; Electricity.

RESEARCH AND DEVELOPMENT ACTIVITIES: Software Sneak Circuit Analysis-Adapt the proven error-detecting capabilities of Sneak Circuit Analysis to development of computer-aided techniques for discovering potentially costly defects in real time computer programs for mission operations. Sneak Circuit Analysis of Digital Logic Circuits-Extend the techniques developed for hard-wired analog circuits to complex digital circuits.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Heuer, D. A.	Electrical/Electronic Engineering	(713) 488-0910 ext 235
Rankin, J. P.	Aerospace Engineering; Nuclear Engineering	(713) 488-0910 ext 239
Wilson, J. L.	Aerospace Engineering; Nuclear Engineering	(713) 488-0910 ext 254
Hill, E. J.	Aircraft Problems	(713) 488-0910 ext 237
Campbell, J. B.	Aircraft Problems	(713) 488-0910 ext 242

STAFF: Full-time - professional 50, nonprofessional 12, total 62; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; statistical compilations; newsletters/trade literature; conference papers; standards and specifications.

REFERENCE AND QUERY SERVICES: Analytical studies; advisory and consulting services; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy if not priority.

USER QUALIFICATIONS: General technology community; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

ORIGINAL PAGE IS
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BOEING VERTOL CO., PRODUCT ASSURANCE AND SYSTEM SAFETY

ADDRESS: Boeing Center, M.S. P30-37
P.O. Box 16858
Philadelphia, PA
19142

TELEPHONE: (215) 522-7907

DIRECTOR: Windolph, G. W.

YEAR INFORMATION SOURCE BEGAN: 1950

MISSION: To provide statistical compilations and individual detailed summaries of helicopter accidents and incidents for the purposes of establishing design objective, criteria and guidelines. Also, to perform detailed safety analyses of new systems using accident history and hypothesizing hazardous effects of predictable failure modes to achieve the desired safety characteristics. The objective is to identify, evaluate, and eliminate or control potential hazards in helicopters from conception through the design, manufacturing, testing, and operation.

SUBJECT SCOPE: Aircraft problems; Aeronautics; Human factors engineering; Safety analysis; Safety engineering; Structural engineering; Reliability; Man-machine hazards.

MAJOR SUBJECT TERMS: Aircraft safety; Civil aviation; Failure; Accidents; Safety equipment; Structural engineering; Maintenance; Detectors; Systems engineering; Accident prevention; Warning systems; Inspection; Shielding; Survival; Product safety.

RESEARCH AND DEVELOPMENT ACTIVITIES: Subsystem design approaches, crashworthiness concepts, statistical methods, system condition monitoring and diagnostic devices and subsystems.

SPECIAL SCOPE FEATURES: Services include: statistical research; safety criteria; system safety and crash survivability analysis; hardware concepts and development.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Senderoff, I.	Product Safety	(215) 522-2268
Sand, E.	Systems Engineering	(215) 522-3476
Eagle, K.	Reliability	(215) 522-3327
Quinn, E.	Human Factors Engineering	(215) 522-7274
Pruyn, R.	Survival	(215) 522-3283

STAFF: Full-time - professional 28, nonprofessional 0, total 28; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies.

DATA BANK RESOURCES:

Name or Acronym	Description of Contents	Range of Years	No. of Records
--	Helicopter Mishap Histories	1950-Present	
--	Computerized Helicopter Dynamic Components Reliability Data Bank	1967-Present	
KRASH	Elasto-plastic Finite Element Analysis of Aircraft Structures under Crash Loading	1973-Present	
STKWKT	Elasto-plastic Plane Frame Analysis of Aircraft Structures under Crash Loading	1974-Present	
PROMETHEUS	Non-Linear Dynamic Analysis of Vehicle Occupants under Crash Environment	1974-Present	
Q13INSTR	Crew Station Reach and Internal Visibility Envelope	1973-Present	
Q1CDR	Windshield Visibility Plot	1973-Present	

BOEING VERTOL CO., PRODUCT ASSURANCE AND SYSTEM SAFETY

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information; analytical studies; advisory and consulting services.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community; government employees; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

BOLT BERANEK AND NEWMAN, INC. (BBN)

ADDRESS: 50 Houlton Street
Cambridge, MA
02138

TELEPHONE: (617) 491-1850

DIRECTOR: Eldred, K. M.

YEAR INFORMATION SOURCE BEGAN: 1948

MISSION: Bolt Beranek and Newman, Inc., working in the areas of physical, environmental, behavioral and information sciences, provides consulting, research and development services to clients in government and industry. Safety related expertise centers on problems of noise and vibrations and human factors in this area.

SUBJECT SCOPE: Computers; Behavioral and social sciences; Information theory (coding); Acoustic detection; Acoustics.

MAJOR SUBJECT TERMS: Personnel development; Shock; Vibration; Human factors engineering; Noise (sound); Environments.

RESEARCH AND DEVELOPMENT ACTIVITIES: Research and Development in the following areas: Aerospace Vehicle Noise Vibrations and Structural Response, Rail Environmental Noise, Control of Ship Noise and Vibration Traffic Noise, Noise and Vibration Control, Architectural Technologies and Behavioral and Information Sciences.

SPECIAL SCOPE FEATURES: Complete technical research facilities include advanced-design acoustical wind tunnels, an anechoic and reverberant chamber, a well-equipped acoustics laboratory, a unique underwater sound laboratory, an instrument and transducer development facility, a laboratory for delivery-testing computer systems, a variety of graphic display systems, and several time-shared computers, one of which connects to a nationwide network of research computers.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Brown, M. A.	Vibration; Ships; Noise (sound)	(617) 491-1850
Heart, R. E.	Computer Techniques	(617) 491-1850
Barger, J. E.	Physics	(617) 491-1850
Schultz, T. J.	Architecture; Noise (sound)	(617) 491-1850
Baron, S.	Information Retrieval	(617) 491-1850
Bruce, R. D.	Environments; Noise (sound)	(617) 491-1850
Hirtle, P. W.	Architecture	(617) 491-1850
Starr, E. A.	Instruments	(617) 491-1850
Ungar, E. E.	Vibration; Structural Engineering	(617) 491-1850
Jackson, F. J.	Ships	(703) 524-4870

STAFF: Full-time - professional 300, nonprofessional 385, total 635; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

HOLDINGS: Books 4,000; abstracts/indexes; reports and reprints; periodicals 275; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides; range of years of total 1955-present.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; prior art/patent searches; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Reproduction/publication services; courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

CANALE RESEARCH

ADDRESS: 625 Randall St.
Redgecrest, CA
93555

TELEPHONE: (714) 375-4997

DIRECTOR: Canale, S.

YEAR INFORMATION SOURCE BEGAN: 1971

MISSION: To provide systems analysis, and system safety services to the government, industry and private individuals.

SUBJECT SCOPE: Safety analysis; Safety education and training; Mechanics of structural failure; Operations research; Metals; Mathematics and statistics.

MAJOR SUBJECT TERMS: Accident investigation; Fatigue (materials); Safety analysis; Electricity; Safety equipment; Industrial safety; Safety procedures; Safety engineering; Reliability; Systems engineering; Aerospace engineering.

RESEARCH AND DEVELOPMENT ACTIVITIES: Safety research on relative hazard rating system for consumer products, economic safety analysis, and safety criteria.

SPECIAL SCOPE FEATURES: Expertise in: hazard analysis, fault tree analysis, cost effectiveness, accident analysis/reconstruction, safety education, simulations/analogies, time state modeling, prediction analysis and metallic fatigue failure.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Canale, S.	Systems Engineering; Product Safety	(714) 375-4997

STAFF: Full-time - professional 1, nonprofessional 2, total 3; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Technical reports; conference papers.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

ORIGINAL PAGE IS
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CENTER FOR SHORT-LIVED PHENOMENA (CSLP)

ADDRESS: Center for Short-Lived Phenomena
60 Garden Street
Cambridge, MA
02138

TELEPHONE: (617) 864-7911

DIRECTOR: Citron, R.

PARENT-SPONSOR-HOST AFFILIATION: Smithsonian Institution

YEAR INFORMATION SOURCE BEGAN: 1968

MISSION: As an early-alert communications headquarters, CSLP, receives and relays scientific information on significant shortlived events throughout the world. Reports of events in the following categories - earth science, astrophysics, urgent anthropology and biological science are communicated to 2,300 corresponding scientists and scientific institutions in 148 countries.

SUBJECT SCOPE: All categories and subcategories.

MAJOR SUBJECT TERMS: Aeronautics; Transportation; Materials; Energy; Structural materials; Fire hazards; Aerospace engineering; Physics; Extraterrestrial environments; Nuclear physics; Chemistry; Accidents; Navigation aids; Life Sciences; Earth sciences.

RESEARCH AND DEVELOPMENT ACTIVITIES: The CSLP has no investigative power of its own but it does initiate follow up studies by its correspondents. It is presently involved in the designing of a Global Environmental Monitoring System with the UN and coordinates the International Environmental Alert Network, a student based reporting system.

SPECIAL SCOPE FEATURES: Major interest in earthquakes, volcanic eruptions and oil and hazardous material spills. International information on earthquakes, volcanoes, and oil spills furnished by both US and foreign sensing stations.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Squires, D.	Earth Sciences	(617) 868-4307
Scallon, P.	Pollution; Life Sciences	(617) 868-4307

STAFF: Full-time - professional 7, nonprofessional 2, total 9; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Technical reports; periodicals/journals; newsletters/trade literature.

HOLDINGS: Reports and reprints.

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information; referrals; scientific or statistical data retrieval/compilation.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

CHURCH, J. M., CONSULTANT

ADDRESS: Department of Chemical Engineering
Columbia University
New York, NY
10027

TELEPHONE: (212) 280-4447

DIRECTOR: Church, J. M.

YEAR INFORMATION SOURCE BEGAN: 1943

MISSION: The investigation and study of fires, explosions and flammability of fabrics through industry and education.

SUBJECT SCOPE: Fire, explosion and detonation; Industrial safety manuals, codes, specifications, standards; Plastics; Chemical engineering; Organic chemistry; Fibers and textiles.

MAJOR SUBJECT TERMS: Textiles; Plastics; Fire resistant materials; Fire prevention; Explosions; Fires; Fire hazards; Safety procedures; Safety regulations; Safety analysis; Chemical engineering.

RESEARCH AND DEVELOPMENT ACTIVITIES: The investigation of fires and explosions, and the recommendation of preventative measures to eliminate them.

SPECIAL SCOPE FEATURES: Consulting services in the areas of fires and/or explosions in gas storage tanks, industrial plants, public institutions and commercial residences. Expertise in health and damage due to fabric or material fires. Other areas include propellants, fuels, lubricants, solvents, and flammability of fabrics and aircraft interior.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Church, J. M.	Fires; Explosions	(212) 280-4447

INTERNAL PUBLICATIONS: Technical reports; periodicals/journals; newsletters/trade literature; conference papers.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services; referrals.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community; immediate staff or members.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

CLIMAX MOLYBDENUM CO. (AMAX)

ADDRESS: Technical Information Center
One Greenwich Plaza
Greenwich, CT
06830

TELEPHONE: (203) 661-3000 ext 351

DIRECTOR: Barr, R. Q.

PARENT-SPONSOR-HOST AFFILIATION: AMAX, Inc.

YEAR INFORMATION SOURCE BEGAN: 1955

MISSION: The Technical Information Center collects, stores, and retrieves technical information needed by customers, students, educators and company personnel. It also maintains a library collection in relevant fields.

SUBJECT SCOPE: Inorganic chemistry; Metals.

MAJOR SUBJECT TERMS: Metallurgy; High strength alloys; Corrosion; Chemical properties; Molybdenum.

SPECIAL SCOPE FEATURES: Metallurgy and chemistry of molybdenum, tungsten, and products containing one or more of these elements. Also literature available on corrosive resistance, strengthening mechanisms and molybdenum in life processes.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Morrow, H., III	Heat Resistant Alloys	(203) 622-3592
McArdle, G.	Refractories	(203) 622-3588
Barr, R. H.	Chemistry; Abrasives	(203) 622-3587

STAFF: Full-time - professional 4, nonprofessional 3, total 7; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Books; handbooks/manuals; abstracts; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; total number of titles 2000; range of years of total 20.

DATA BANK RESOURCES:

<u>Name or</u>	<u>Description of Contents</u>	<u>Range of Years</u>	<u>No. of</u>
<u>ACRONYM</u>			<u>Records</u>
TERMATREX	Mo, W steels and alloys containing Mo and W.	20	60,000

REFERENCE AND QUERY SERVICES: Retrospective searches; translations; custom abstracting and indexing services.

OTHER SERVICES: On-site use of collection; reproduction/publication services.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: All services free to qualified users.

DECEMBER 1975

COAST GUARD, CARGO AND HAZARDOUS MATERIALS DIVISION (G-MHM)

ADDRESS: COMDT (G-MHM-83)
US Coast Guard
Washington, DC
20590

TELEPHONE: (202) 426-2297

DIRECTOR: Mathieu, Capt. C. E.

YEAR INFORMATION SOURCE BEGAN: 1940

MISSION: To protect life and property at sea; to promote the safe transportation and use of packaged and bulk hazardous materials in the marine mode; administration of the Dangerous Cargo Act; administration of the Safe Container Convention of 1972 and the Customs Convention on Freight Containers.

SUBJECT SCOPE: Containers and packaging; Marine engineering; Safety engineering; Radioactivity; Dangerous materials.

MAJOR SUBJECT TERMS: Explosives; Reactor safety; Transportation; Shipping regulations; Safety regulations; Chemical hazards; Protective equipment; Compressed gas; Liquified gases; Corrosion; Oxidation; Hazardous materials; Toxicity; Chemical properties; Fire prevention; Cargo.

RESEARCH AND DEVELOPMENT ACTIVITIES: Supports/commissions research in the areas of the major subject terms. Research oriented towards enabling promulgation of better or new safety regulations.

SPECIAL SCOPE FEATURES: G-MHM expertise is safety and chemical technology in the areas of explosives, flammables, poisons, corrosives, oxidizers, gases, radioactive materials, and other hazardous articles; fire protection; personnel safety; cargo containment systems; chemical compatibility; multimodal freight containers; portable tanks; vessel and cargo accelerations.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Allen, M. H.	Cargo	(202) 426-1577
Altemos, E. A.	Hazardous Materials; Cargo	(202) 426-1577
Dickey, T. R.	Liquified Gases	(202) 426-1217
Luckritz, R. T.	Hazardous Materials; Cargo	(202) 426-1217
Morrisette, M. D.	Chemical Hazards; Toxicity	(202) 426-1218
Pfersich, E. P.	Quality Control; Ships	(202) 426-1219
Rawl, R. R.	Radioactive Materials	(202) 426-1579
Riikonen, D. A.	Explosives	(202) 426-1579
Roosmagi, C.	Barges; Chemical Hazards	(202) 426-1218
Schneider, A.	Liquified Gases	(202) 426-1219

STAFF: Full-time - professional 24, nonprofessional 9, total 33; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; statistical compilations; reference lists/bibliographies.

HOLDINGS: Books; abstracts/indexes; reports and reprints; statistical compilations; total number of titles 4700.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: All services free to qualified users.

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DECEMBER 1975

COBALT INFORMATION CENTER (CIC)

ADDRESS: Battelle Memorial Institute
505 King Avenue
Columbus, OH
43201

TELEPHONE: (614) 424-6424

DIRECTOR: Maykuth, D. J.

PARENT-SPONSOR-HOST AFFILIATION: Battelle Memorial Inst.

YEAR INFORMATION SOURCE BEGAN: 1956

MISSION: To give cobalt users technical assistance, to disseminate technical information, to encourage and aid research, and to develop new uses for cobalt.

SUBJECT SCOPE: Metals; Ceramics, refractories and glass; Adhesives and seals; Coatings, colorants and finishes; Corrosion and degradation.

MAJOR SUBJECT TERMS: Protective coatings; Adhesives; Chemical properties; Corrosion; Metallurgy; High strength alloys; Mechanical properties; Glass; Ceramics; Iron; Steels; Magnetic properties; Mechanical properties; Cobalt.

RESEARCH AND DEVELOPMENT ACTIVITIES: Sponsors research and development to understand the cobalt role in modern materials.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext.(x)
Maykuth, D. J.	Cobalt	(614) 424-6424

STAFF: Full-time - professional 1, nonprofessional 1, total 2; part-time - professional 2, nonprofessional 0, total 2.

INTERNAL PUBLICATIONS: Abstracts; indexes; technical reports; statistical compilations; periodicals/journals; conference papers; reference lists/bibliographies; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; state-of-the-art reviews; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; reproduction/publication services; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Not available.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

COMMISSION FOR THE ADVANCEMENT OF PUBLIC INTEREST ORGANIZATIONS

ADDRESS: 1875 Connecticut Avenue, N.W. Suite 1013
Washington, DC
20009

TELEPHONE: (202) 462-0505

DIRECTOR: Clark, C. C.

PARENT-SPONSOR-HOST AFFILIATION: Monsour Medical Foundation

YEAR INFORMATION SOURCE BEGAN: 1974

MISSION: To support communities, the public, and public interest groups with technical, social and political information and consultation on public safety and other community interest problems; to initiate in-house research on aspects of these issues, particularly with regard to facilitating information flow to the community and public interest groups; to author state of the art summary publications in areas of public concern; to establish and operate a public interest data bank, Information Resources for Public Interest, in print and experimentally in on-line interactive computer form, which includes organizations, experts, legislation, and technical documents in the public safety and community interest areas.

SUBJECT SCOPE: Industrial safety manuals, codes, specifications, standards; Biological and medical sciences.

MAJOR SUBJECT TERMS: Life sciences; Life support systems; Physiology; Medicine; Nutrition; Hygiene; Protective equipment; Toxicity; Physiological hazards; Consumer protection.

RESEARCH AND DEVELOPMENT ACTIVITIES: Promotes research on public interest issues, including toxic pollution and other topics which have strong preventive medicine implications; identifies public candidates for advisory committees and consultants for community groups and develops means of improved telecommunications with community groups world-wide.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Clark, C. C.	Information Retrieval; Safety Analysis	(202) 462-0505
Halverson, Marlene	Water Pollution; Toxicity	(202) 462-0505
Gage, K.	Information Retrieval	(202) 462-0506
Kleypas, D.	Legal Liability; Consumer Protection	(202) 462-0507
Marcus, M.	Information Retrieval	(202) 462-0505
Charest, M.	Information Retrieval	(202) 462-0505

STAFF: Full-time - professional 5, nonprofessional 0, total 5; part-time - professional 1, nonprofessional 0, total 1.

INTERNAL PUBLICATIONS: Reference lists/bibliographies.

HOLDINGS: Books; reports and reprints; periodicals; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually for public interest groups; selective dissemination of information; state-of-the-art reviews; analytical studies; referrals.

OTHER SERVICES: On-site use of collection; courses/workshops.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users (i.e. duplication costs).

DECEMBER 1975

COMPREHENSIVE UNIVERSITY OF DAYTON ON-LINE SERVICES (CUDOS)

ADDRESS: University of Dayton Research Institute
Information Systems Section KL 445
300 College Park Avenue
Dayton, OH
45459

TELEPHONE: (513) 229-3711

DIRECTOR: Scheffler, F. L.

PARENT-SPONSOR-HOST AFFILIATION: Univ. of Dayton Research Inst.

YEAR INFORMATION SOURCE BEGAN: 1973

MISSION: The Information Systems Section is concerned with providing consulting and research activities to aid in the development of viable information systems and to advance the state-of-the-art in information processing and transfer. It also provides to various organizations access to a number of on-line data bases and information systems through the Comprehensive University of Dayton On-Line Service (CUDOS) program.

SUBJECT SCOPE: Structural materials limitations (metallic and nonmetallic); Mechanics of structural failure; Safety analysis; Metals; Composite materials; Ceramics, refractories and glass; Psychology; Biological and medical sciences; Toxicology; Chemistry; Physics; Computers.

MAJOR SUBJECT TERMS: Aircraft problems; Transportation; Vehicles (land); Failure; Physiological hazards; Personnel development; Acoustics; Environments; Spacecraft control; Ground support systems; Structural engineering; Structural failure; Safety analysis; Physics; Chemistry; Information retrieval.

RESEARCH AND DEVELOPMENT ACTIVITIES: The Information Systems Section performs research and development work on information science-related activities and operates the CUDOS program. Current projects include abstracting and indexing literature on training for inclusion in an on-line system, and the analysis of profiles for selective dissemination of information.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Scheffler, F. L.	Information Retrieval	(513) 229-3711
March, J. F.	Information Retrieval	(513) 229-3711 or (513) 255-5197
Kroger, D. J.	Chemistry	(513) 229-3711

STAFF: Full-time - professional 5, nonprofessional 2, total 7; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Technical reports; newsletters/trade literature.

DATA BANK RESOURCES:

Name or ACRONYM	Description of Contents	Range of Years	No. of Records
NTIS	Federal Research & Development Reports	1970-	200,000
Chemistry and Chemical Engineering Abstracts			
Compendex	Engineering Journals	1970-	
EAIC	Educational Technical Reports & Journals	1970-	
INFORM	Business Journals		
TOXLINE	Environmental & Chemical Toxicology Data		
GEOREF	Geology Journals	1970-	

COMPREHENSIVE UNIVERSITY OF DAYTON ON-LINE SERVICES (CUDOS)

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; state-of-the-art reviews; analytical studies; advisory and consulting services; bibliographic abstracts; scientific or statistical data retrieval/compilation; custom abstracting and indexing services.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy; microfilm copy; microfiche copy.

USER QUALIFICATIONS: General technology community; government employees; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

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COMPRESSED GAS ASSOCIATION, INC. (CGA)

ADDRESS: 500 Fifth Avenue
New York, NY
10036

TELEPHONE: (212) 524-4796

DIRECTOR: Matthews, L. G.

YEAR INFORMATION SOURCE BEGAN: 1913

MISSION: To develop, coordinate, and provide technical activities in the compressed gas industries, including end uses of products, in the interest of safety and efficiency, and to the end that they may serve, to the fullest extent, the best interest of the public and industry.

SUBJECT SCOPE: Dangerous materials; Industrial safety manuals, codes, specifications, standards.

MAJOR SUBJECT TERMS: Safety regulations; Safety procedures; Industrial safety; Hazardous materials; Transportation; Cryogenic fluid safety; Compressed gas; Liquified gases; Fire hazards; Rescue operations; Materials tests.

RESEARCH AND DEVELOPMENT ACTIVITIES: The CGA, through the workings of the following membership committees makes recommendations to and works with regulatory agencies at the local, state and federal level: Gas Industry Committee, Cylinder Manufacturer's Committee, Transportation Committee, General Technical Committee, Cryogenic and Low Temperature Committee, Industrial Gases Apparatus Committee, Gas Specifications Committee, and Air Separation Committee.

SPECIAL SCOPE FEATURES: The field of interest extends to all compressed gases, including atmospheric gases such as nitrogen, oxygen, argon and the rare gases; hydrocarbons such as propane, butane, methane and ethylene; refrigerants such as ammonia and the fluorocarbons; aerosol propellants; poisonous gases such as hydrogen cyanide and phosgene; medical gases such as nitrous oxide, cyclopropane and ethylene and numerous other gases including nitrogen oxides, chlorine, methylamines, sulphur dioxide, carbon monoxide and flourine.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Matthews, L. G.	Compressed gas	(212) 524-4796

STAFF: Full-time - professional 4, nonprofessional 4, total 8; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Books; handbooks/manuals; technical reports; statistical compilations; newsletters/trade literature; standards and specifications.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; total number of titles 200.

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information; referrals.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community; staff or members of affiliated organizations.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for user outside organization.

DECEMBER 1975

CONSUMER PRODUCT SAFETY COMMISSION (CPSC)

ADDRESS: 5401 West Bard Avenue
Washington, DC
20207

TELEPHONE: (301) 492-6534

DIRECTOR: Rashid, K. R.

YEAR INFORMATION SOURCE BEGAN: 1973

MISSION: The mission of the CPSC is: to protect the public against unreasonable risks of injury associated with consumer products; to assist consumers in evaluating the comparative safety of consumer products; to develop uniform safety standards for consumer products and to minimize conflicting state and local regulations; and to promote research and investigation in causes and prevention of product-related deaths, illness and injuries.

SUBJECT SCOPE: Man-machine hazards; Fire, explosion and detonations; Dangerous materials; Safety analysis; Propellants, fuels, lubricants, hydraulic fluids safety; Structural materials limitations (metallic and nonmetallic); Mechanics of structural failure.

MAJOR SUBJECT TERMS: Accident prevention; Accidents; Hazardous materials; Vehicles (land); Fuels; Human factors engineering; Physiological hazards; Toxicity; Chemical hazards; Electricity; Fire hazards; Fire prevention; Fire resistant materials; Safety engineering; Safety regulations; Safety analysis; Consumer protection; Product safety.

RESEARCH AND DEVELOPMENT ACTIVITIES: The program for research and development encompasses standards development, technical analyses in response to notification of substantial product hazards, and longer term engineering studies. Other research areas covered include acute and chronic toxicity, biomedical analysis, and development of scientific and technical information data bases.

SPECIAL SCOPE FEATURES: The CPSC maintains for the purposes of technical information on product safety a reference library and service (TIPS) which maintains information on specific subject areas such as aluminum wiring, flammable products, combustible liquids, etc.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Early, R. D.	Information Retrieval	(301) 492-6463
Rashid, K. R.	Product Safety; Consumer Protection	(301) 492-6534

STAFF: Full-time - professional 500, nonprofessional 300, total 800; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides; total number of titles 3,000.

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CONSUMER PRODUCT SAFETY COMMISSION (CPSC)

DATA BANK RESOURCES:

Name or Acronym	Description of Contents	Range of Years	No. of Records
Chemical Abstract Number Data Base	Chemical Names	--	10,000
Poison Prevention Packaging Data Base	Safety Packaging	--	315
NEISS (National Electronic Injury Surveillance System)	Injury Information		

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information; analytical studies; advisory and consulting services; referrals.

OTHER SERVICES: On-site use of collection; courses/workshops.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: All services free to qualified users.

DECEMBER 1975

COSMODYNE

ADDRESS: 2920 Columbia St.
Torrance, CA
90509

TELEPHONE: (213) 320-5650

DIRECTOR: Dowdell, T.

PARENT-SPONSOR-HOST AFFILIATION: Cordon International Corporation

YEAR INFORMATION SOURCE BEGAN: 1958

MISSION: Cosmodyne is the major energy processing, handling and storage system engineering and manufacturing division of Cordon International Corporation.

SUBJECT SCOPE: Cryogenic safety; Nuclear safety; Aerospace technology; Fuel systems.

MAJOR SUBJECT TERMS: Aerospace engineering; Cryogenic fluid safety; Reactor safety; Liquified gases; Nitrogen; Nuclear power plants; Test equipment; Ground support systems; Oxygen; Hydrogen.

RESEARCH AND DEVELOPMENT ACTIVITIES: Research and development projects are in LNG processing, transfer and storage, nuclear waste removal, decontamination and gas treatment systems and aircraft and aerospace fuel systems.

SPECIAL SCOPE FEATURES: Cosmodyne has provided equipment to the ground support and aerospace industries since 1958. The company has manufactured storage tanks, centrifugal pumps, positive displacement pumps, vaporizers, and instrumentation equipment for all types of cryogenic liquids, such as liquid oxygen, liquid nitrogen, liquid hydrogen, etc. Since 1970 Cosmodyne has manufactured specialized systems for the removal and reduction of radioactive content of nuclear power plant gas streams.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext.(x)</u>
Crowl, R.	Cryogenic Fluid Safety	(213) 320-5650
Rowe, H.	Cryogenic Fluid Safety	(213) 320-5650
Stockinger, S.	Reactor Safety	(213) 320-5650
Khandar, M. K.	Reactor Safety	(213) 320-5650

DECEMBER 1975

CRANE PACKING COMPANY

ADDRESS: 6400 Oakton Street
Morton Grove, IL
60053

TELEPHONE: (312) 967-2400

DIRECTOR: Zobens, A.

SUBJECT SCOPE: Mechanical shaft seals; Packings.

MAJOR SUBJECT TERMS: Hydraulics; Materials tests; Materials; Rubber; Mechanical engineering.

RESEARCH AND DEVELOPMENT ACTIVITIES: Research and development efforts concentrate on product development and testing and outside development contracts and contract testing.

SPECIAL SCOPE FEATURES: The specialty of Crane Packing is dynamic sealing devices. Carbon and graphite are used in the mechanical shaft seals. Besides mechanical shaft seals, the product line includes oil (lip) seals, shaft packings, lapping machines, PTFE stock shapes and custom molded/machined parts.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Dziedzic, J.	Tests	(312) 967-2400
Freimanis, I.	Materials; Chemistry	(312) 967-2400
Johnson, L.	Rubber; Chemistry	(312) 967-2400
Tsou, D. M.	Rubber; Chemistry	(312) 967-2400
Wisniewski, F.	Chemistry	(312) 967-2400
Ashworth, M.	Information Retrieval	(312) 967-2400

STAFF: Full-time - professional 24, nonprofessional 8, total 32; part-time - professional 3, nonprofessional 0, total 3.

INTERNAL PUBLICATIONS: Technical reports; standards and specifications; bulletins; brochures.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually.

OTHER SERVICES: Interlibrary loans.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Not available.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

CRANSTON RESEARCH INC. (CRI)

ADDRESS: 6060 Duke Street
Alexandria, VA
22304

TELEPHONE: (703) 751-7323

DIRECTOR: Cranston, G. F.

YEAR INFORMATION SOURCE BEGAN: 1970

MISSION: The Corporation was formed to apply System Safety Engineering Techniques from the aerospace industry to other segments of our society in response to the current emphasis on accident prevention in all walks of life.

SUBJECT SCOPE: Safety analysis; Industrial safety manuals, codes, specifications, standards; Aircraft problems; Space vehicle problems; Dangerous materials; Nuclear safety; Propellants, fuels, lubricants, hydraulic fluids safety; Safety engineering; Ordnance; Reliability.

MAJOR SUBJECT TERMS: Systems engineering; Highway safety; Accident investigation, Safety equipment; Safety engineering; Safety analysis; Safety regulations; Standards; Industrial safety; Fire resistant materials; Fire prevention; Safety engineering; Acoustics; Hazardous materials; Aircraft safety; Reactor safety; Aerospace engineering.

RESEARCH AND DEVELOPMENT ACTIVITIES: Study, analysis and design in the following areas: technical safety information, space safety, space accidents/incidents, risk management, and pump failures.

SPECIAL SCOPE FEATURES: Capabilities and facilities include: comprehensive safety technical libraries; experience in devising and implementing safety programs including training and education; administrative services for professional societies; and safety engineering placement service.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Cranston, G. F.	Systems Engineering; Safety Analysis	(703) 751-7323

STAFF: Full-time - professional 6, nonprofessional 0, total 6; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; indexes; technical reports; statistical compilations; newsletters/trade literature; conference papers; reference lists/bibliographies.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; total number of titles 3,000; range of years of total 1965-1975.

DATA BANK RESOURCES:

Name or Acronym	Description of Contents	Range of Years	No. of Records
Air Transportation Safety		1965-1975	2,000
Highway Safety		1965-1975	1,500
General Aviation Safety		1965-1975	500
Accidents-Suicides		1965-1975	2,000
Airport Safety		1965-1975	200
Safety Training and Awareness		1965-1975	1,000
Product Safety		1965-1975	200
Systems Safety		1965-1975	1,500
Safety Standards		1965-1975	150
Industrial Safety		1965-1975	1,000
Marine Safety		1965-1975	300
Hazardous Materials		1965-1975	150
Bicycle Safety		1965-1975	100

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CRANSTON RESEARCH INC. (CRI)

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; analytical studies; advisory and consulting services.

OTHER SERVICES: On-site use of collection; reproduction/publication services; courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community; immediate staff or members; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users; charge for user outside organization; charge to all users for all services.

DECEMBER 1975

CRYOGENIC CONSULTANTS, INC.

ADDRESS: 1128 North Graham Street
Allentown, PA
18103

TELEPHONE: (215) 439-0419

DIRECTOR: Vander Arend, P. C.

YEAR INFORMATION SOURCE BEGAN: 1965

MISSION: To provide industry and the research community with engineering services in the field of low temperature technology. These services include conceptual design, economic evaluations, project management, safety reviews and studies, and process and equipment design.

SUBJECT SCOPE: Cryogenic safety; Dangerous materials; Safety analysis; Industrial safety manuals, codes, specifications, standards.

MAJOR SUBJECT TERMS: Safety engineering; Accident investigation; Safety analysis; Safety regulations; Safety procedures; Industrial safety; Safety equipment; Ground support systems; Cryogenic fluid safety; Hazardous materials; Systems engineering; Failure; Liquified gases.

RESEARCH AND DEVELOPMENT ACTIVITIES: Current projects include superconductors, the transportation and the installation of cryogenic substances and systems and test concepts for cooling systems.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Vander Arend, P. C.	Liquid Hydrogen; Liquid Helium	(215) 439-0419
Stoy, S. I.	Liquid Helium; Cryogenic Fluid Safety	(215) 439-0419
West, J. E.	Liquified Gases; Cryogenic Fluid Safety	(215) 439-0419

STAFF: Full-time - professional 3, nonprofessional 4, total 7; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Technical reports.

HOLDINGS: Books; reports and reprints; reference lists/bibliographies; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; analytical studies; advisory and consulting services.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

CRYPTANALYTIC COMPUTER SCIENCES, INC. (CCSI)

ADDRESS: 499 Cooper Landing Road
Cherry Hill, NJ
08034

TELEPHONE: (609) 667-5626

DIRECTOR: Waite, J. H.

YEAR INFORMATION SOURCE BEGAN: 1968

MISSION: To provide private industry and federal agencies with new procedures with which to gain new and additional insights into the cause and effect relationships of various phenomena.

SUBJECT SCOPE: Mathematics and statistics; Energy storage; (Electrical) components; Information theory (coding); Biological and medical sciences; Reprography; Mechanics of structural failure; Operations research.

MAJOR SUBJECT TERMS: Electric batteries; Power supplies; Medicine; Physiology; Physiological hazards; Toxicity; Systems engineering; Reliability; Information retrieval; Failure.

RESEARCH AND DEVELOPMENT ACTIVITIES: Research and Development in the areas of failure rate analysis, deterministic statistics, automated vocabulary transformation, pattern detection and analysis, medical information systems and "early warning" models in certain health areas.

SPECIAL SCOPE FEATURES: CCSI has developed information filing and retrieval systems in the areas of: engineering hardware, hazard and risk assessment, search systems and microforms.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Waite, J. H.	Mathematics	(609) 667-5626
Fischer, J. G.	Life Sciences; Medicine	(609) 667-5626
Latham, N. D.	Computer Systems Design	(609) 667-5626
Ricks, S.	Information Retrieval	(609) 667-5626
Epstein, S. D.	Computer Systems Design	(609) 667-5626
Paul, J. E.	Computer Programming	(609) 667-5626
Edner, P. G.	Life Sciences	(609) 667-5626

STAFF: Full-time - professional 7, nonprofessional 0, total 7; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; technical reports; statistical compilations; graphics/tabular materials.

HOLDINGS: Books; reports and reprints; periodicals; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

DALTON RESEARCH CENTER (DRC)

ADDRESS: University of Missouri
Columbia, MO
65201

TELEPHONE: (314) 882-7586

DIRECTOR: Musacchia, X. J.

PARENT-SPONSOR-HOST AFFILIATION: Univ. of Missouri

YEAR INFORMATION SOURCE BEGAN: 1962

MISSION: To train graduate and post graduate students and to conduct interdisciplinary health related research.

SUBJECT SCOPE: Biochemistry; Physiology; Radiobiology; Biological and medical sciences; Cryogenic safety.

MAJOR SUBJECT TERMS: Physiology; Life sciences; Medicine; Cryogenic fluid safety.

RESEARCH AND DEVELOPMENT ACTIVITIES: Promote training of research specialists in physiology, bioengineering, cryobiology, and cellular and molecular chemistry.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Brown, O. R.	Medicine	(314) 882-6311
Musacchia, X. J.	Physiology	(314) 882-7586
Devaney, M. J.	Electronics; Medicine	(314) 882-6311
South, F. E.	Physiology	(314) 882-6311
Volkert, W. A.	Radiation; Medicine	(314) 882-6311

STAFF: Full-time - professional 13, nonprofessional 43, total 56; part-time - professional 9, nonprofessional 3, total 12.

HOLDINGS: Books; periodicals.

REFERENCE AND QUERY SERVICES: Questions answered individually.

USER QUALIFICATIONS: Staff or members of affiliated organizations.

DECEMBER 1975

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DUKE UNIV. EYE CENTER

ADDRESS: Box 3802
Durham, NC
27710

TELEPHONE: (919) 684-2032

DIRECTOR: Wolbarsht, M. L.

MISSION: To study the effects of various types of non-ionizing radiation on the eye.

SUBJECT SCOPE: Extraterrestrial environmental hazards; Dangerous industrial radiation; Industrial safety manuals, codes, specifications, standards, etc.; Optics; Masers and lasers; Physiology; Safety analysis.

MAJOR SUBJECT TERMS: Physiology; Thermal radiation; Lasers; Aerospace medicine; Extraterrestrial environments; Radiation; Industrial safety; Physiological hazards; Standards; Safety regulations; Safety analysis; Eye (anatomy).

RESEARCH AND DEVELOPMENT ACTIVITIES: Current studies concern the development of a glare sensitivity test for drivers; the development of standards for laser safety in relation to industrial usage; the mode of genesis of cataracts from ultraviolet and infrared radiation, especially laser sources; and the mechanism of loss of visual sensitivity from intense visible light sources as related to their wavelength.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Wolbarsht, M. L.	Medicine; Eye (Anatomy)	(919) 684-2032

STAFF: Full-time - professional 5, nonprofessional 2, total 7; part-time - professional 7, nonprofessional 2, total 9.

HOLDINGS: Books; reports and reprints; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy not all available.

USER QUALIFICATIONS: Ad hoc permission.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

EARTH RESOURCES OBSERVATION SYSTEMS DATA CENTER (EROS)**ADDRESS:**

Sioux Falls, SD
57198

TELEPHONE: (605) 594-6511

DIRECTOR: Watkins, A. H.

PARENT-SPONSOR-HOST AFFILIATION: Department of the Interior

YEAR INFORMATION SOURCE BEGAN: 1971

MISSION: To receive, catalog, store, duplicate, and distribute aircraft and spacecraft remote sensor data obtained from the Department of the Interior, NASA, and any other sources; to provide training and assistance in the application of remote sensor data to resources and land use problems; to conduct research in the extraction of information from data and in the interpretation of data for natural resources and land use investigations; and to maintain a library of remote sensing publications.

SUBJECT SCOPE: Earth sciences and oceanography; Reprography; Infrared and ultraviolet detection; Optical detection; Radar detection; Spacecraft; Miscellaneous detection.

MAJOR SUBJECT TERMS: Detectors; Electromagnetic radiation; Thermal radiation; Microwaves; Spacecraft; Earth sciences; Environments; Mining; Oceanography; Telecommunications; Nondestructive evaluation.

RESEARCH AND DEVELOPMENT ACTIVITIES: Transfer of technology regarding the applications of remote sensing data to a widening scope of natural resource and environmental problems; digital classification and analysis of remotely sensed data.

SPECIAL SCOPE FEATURES: The data center reproduces and distributes as sale items copies of imagery, photography, electronic data, and computer products collected by various organizations. Data acquisitions from the following sources are included: Earth Resources Technology Satellite (ERTS), the Earth Resources Experiment Package (EREP) of Skylab, and NASA's Aircraft Program. The Center also houses photographic laboratories and attendance facilities related to data production.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Pettinger, L.	Information Retrieval	(605) 594-6511 ext 133

STAFF: Full-time - professional 90, nonprofessional 260, total 350; part-time - professional 0, nonprofessional 0, total 0.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; films and slides; total number of titles 10,000.

DATA BANK RESOURCES:

Name or Acronym	Description of Contents	Range of Years	No. of Records
Landsat	Imagery & electronic data acquired by the Landsat satellites		700,000 frames
Apollo-Gemini photography			6,000 frames
Skylab imagery and photography			34,000 frames
NASA Research Aircraft Imagery			1,900,000 frames
USDI Aerial Mapping Photography			3,740,000 frames

EARTH RESOURCES OBSERVATION SYSTEMS DATA CENTER (EROS)

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; interlibrary loans; reproduction/publication services photographic products; digital tape data; courses/workshops.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy; microfilm copy; microfiche copy.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

EASTERN ENVIRONMENTAL RADIATION FACILITY (EERF)

ADDRESS: PO Box 3009
Montgomery, AL
36109

TELEPHONE: (205) 272-3402

DIRECTOR: Porter, C.

PARENT-SPONSOR-HOST AFFILIATION: Environmental Protection Agency

YEAR INFORMATION SOURCE BEGAN: 1970

MISSION: To provide: laboratory capability for evaluation and assessment of radiation sources through environmental studies and surveillance and analysis; technical assistance to the State and local health departments in their radiological health programs; and special laboratory support for EPA regional Offices and other Federal Government agencies as requested.

SUBJECT SCOPE: Nuclear safety; Laboratories, test facilities and test equipment; Nuclear science and technology; Isotopes; Radioactive wastes and fission products; Radioactivity.

MAJOR SUBJECT TERMS: Detectors; Nuclear physics; Nuclear radiation; Nuclear energy; Radioactive wastes; Nuclear power plants; Warning systems; Electromagnetic radiation; Ionizing radiation.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext.(x)</u>
Porter, C. R.	Nuclear Physics	(205) 272-3402

STAFF: Full-time - professional 34, nonprofessional 16, total 50; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Abstracts; technical reports; statistical compilations; newsletters/trade literature; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations.

REFERENCE AND QUERY SERVICES: Analytical studies; advisory and consulting services; referrals.

USER QUALIFICATIONS: Staff or members of affiliated organizations; government employees; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

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ELECTRONIC PROPERTIES INFORMATION CENTER (EPIC)

ADDRESS: Center for Information and Numerical Data Analysis and Synthesis
Purdue University
2595 Yager Road
West Lafayette, IN
47906

TELEPHONE: (317) 463-1581

DIRECTOR: Pouloukian, Y. S.

PARENT-SPONSOR-HOST AFFILIATION: Purdue Univ.; Department of Defense; Department of Commerce

YEAR INFORMATION SOURCE BEGAN: 1961 at Hughes Aircraft Company and transferred to Purdue University in June 1973.

MISSION: To become a world center for research and the collection, analysis, correlation and dissemination of electronic, electrical, magnetic, and optical properties information; and to promote a better understanding of this subject in education, science, and industry.

SUBJECT SCOPE: Inorganic chemistry; Ceramics, refractories and glass; Composite materials; Coatings, colorants and finishes; Metals; Plastics; Electricity and magnetism; Optics; Solid state physics; Crystallography.

MAJOR SUBJECT TERMS: Electromagnetic radiation; Magnetic properties; Materials; Glass; Ceramics; Plastics; Physical properties; Electricity; Electronics.

RESEARCH AND DEVELOPMENT ACTIVITIES: Theoretical and Analytic research is performed. The associated Property Research Laboratory performs experimental research.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Touloukian, Y. S.	Physical Properties; Thermodynamics	(317) 463-1581
Ho, C. Y.	Physical Properties	(317) 463-1581
James, H. M.	Physics	(317) 463-1581
Li, H. H.	Physical Properties	(317) 463-1581
Chi, T. C.	Physical Properties	(317) 463-1581
Matula, R. A.	Physical Properties	(317) 463-1581
Shafer, W. H.	Physics; Information Retrieval	(317) 463-1581
Chaney, J. F.	Physics; Information Retrieval	(317) 463-1581
Koutoujian, H. K.	Information Retrieval	(317) 463-1581
Phillips, J.	Computer Programming	(317) 463-1581

STAFF: Full-time - professional 5, nonprofessional 4, total 9; part-time - professional 5, nonprofessional 1, total 6.

INTERNAL PUBLICATIONS: Books; handbooks/manuals; technical reports; statistical compilations; newsletters/trade literature; graphics/tabular materials; magnetic tape bibliographic data.

HOLDINGS: Abstracts/indexes; reports and reprints; total number of titles 70,000; range of years of total 1875-present.

DATA BANK RESOURCES:

Name or Acronym	Description of Contents	Range of Years	No. of Records
	Materials Directory and Synonyms	1874-present	10,000
	Technical Coding by Properties	1874-present	60,000
	Bibliographic Citations	1874-present	60,000
	Author Index	1874-present	70,000

ELECTRONIC PROPERTIES INFORMATION CENTER (EPIC)

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; state-of-the-art reviews; analytical studies; advisory and consulting services; scientific or statistical data retrieval/compilation; translations.

OTHER SERVICES: Interlibrary loans; reproduction/publication services; courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

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ENVIRONMENTAL PROTECTION AGENCY, OFFICE OF RADIATION PROGRAMS (ORP)

ADDRESS: 401 M Street, S.W.
East Tower, Room 611
Washington, DC
20460

TELEPHONE: (202) 755-4894

DIRECTOR: Rowe, W.

YEAR INFORMATION SOURCE BEGAN: 1970

MISSION: Responsible for the development and enforcement of standards for protection of the public health and the quality of the environment from the adverse effects of both ionizing and nonionizing radiation exposure; the creation of technical assistance and manpower training programs; research and assessment of new activities proposed by Federal agencies and Federally controlled agencies.

SUBJECT SCOPE: Nuclear safety; Radiobiology; Radioactive wastes and fission products; Radioactivity; Nuclear propulsion; Isotopes.

MAJOR SUBJECT TERMS: Physiological hazards; Protective equipment; Ionizing radiation; X-rays; Radioactive isotopes; Radioactive wastes; Radioactive spills; Nuclear radiation; Reactor safety; Nuclear power plants; Safety regulations; Safety procedures; Inspection; Shielding; Environments; Air pollution; Radiation; Information retrieval.

RESEARCH AND DEVELOPMENT ACTIVITIES: Develop and evaluate radiation protection proposals, recommendations, criteria and standards designed to protect the environment, the general public, and people who may be occupationally exposed. It must also assess all new federally sponsored or regulated activities and all industrial and commercial products or processes that may result in additional radiation exposure.

SPECIAL SCOPE FEATURES: The Office is also responsible for providing technical assistance to States and other agencies having radiation protection requirements, establishing and directing a national surveillance program for measuring radiation levels in the environment, evaluating and assessing the impact of new and developing radiation technology on man and the environment and assisting in the training of personnel for radiation protection programs.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Martin, J.	Radiation	(202) 755-4871
Sibbison, J.	Information Retrieval	(202) 755-0344

STAFF: Full-time - professional 50, nonprofessional 50, total 100; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; periodicals/journals; newsletters/trade literature; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

FEDERAL AVIATION ADMINISTRATION, OFFICE OF AVIATION MEDICINE

ADDRESS: Federal Aviation Administration
800 Independence Ave. S.W.
Washington, DC
20591

TELEPHONE: (202) 426-3535

DIRECTOR: Reighard, H. L., M.D.

YEAR INFORMATION SOURCE BEGAN: 1926

MISSION: To provide medical certification of civil airmen and conduct air safety medical research.

SUBJECT SCOPE: Clinical medicine; Escape, rescue and survival; Laboratories, test facilities and test equipment; Research; Protective equipment; Bioengineering; Man-machine hazards.

MAJOR SUBJECT TERMS: Medicine; Physiology; Human factors engineering; Protective equipment; Survival; Extraterrestrial environments; Aircraft safety; Escape systems; Air traffic control; Civil aviation; Fabrication; Structural engineering; Structural materials; Aerospace medicine.

RESEARCH AND DEVELOPMENT ACTIVITIES: Contract R&D medical research and program guidance to in-house medical research.

SPECIAL SCOPE FEATURES: The Office of Aviation Medicine specifically concentrates on safety aspects of flight, including pilot certification from the medical standpoint and crash survivability for aircraft occupants. The research covers physical standards for airmen, protection and survival of occupants in aircraft from crash forces and also inflight environmental extremes. In addition, the research covers bioengineering aspects of man machine interrelationships. Research on air traffic controller health is also a major consideration.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Reighard, H. L.	Medicine; Aerospace Medicine	(202) 426-3535
Haynes, H.	Psychiatry	(202) 426-3535
Packull, B.	Psychiatry	(202) 426-3535

STAFF: Full-time - professional 16, nonprofessional 35, total 51; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Books; abstracts; technical reports; newsletters/trade literature; reference lists/bibliographies.

HOLDINGS: Books; abstracts/indexes; reference lists/bibliographies.

DATA BANK RESOURCES:

Name or Acronym	Description of Contents	Range of Years	No. of Records
Civil Airmen Data Storage	Health of Civil Airmen	1926-	750,000

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; referrals.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Not available.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

FEDERAL HIGHWAY ADMINISTRATION (FHWA)**ADDRESS:**

Washington, DC
20590

TELEPHONE: (703) 557-5257

DIRECTOR: Scheffey, C. F.

PARENT-SPONSOR-HOST AFFILIATION: Department of Transportation

YEAR INFORMATION SOURCE BEGAN: 1970

MISSION: To provide leadership and programs for developing a highway transportation system that effectively satisfies national, regional, and local needs. This mission involves not only finding solutions to unresolved issues associated with present day highway technology, but also includes developing the technology base from which future highway systems can be built or obtained from modifications to existing systems, which are safer, more efficient, and less costly. Always a continuing concern is enhanced compatibility with the social and environmental goals of society and improved balance with other modes of transportation.

SUBJECT SCOPE: Safety analysis.

MAJOR SUBJECT TERMS: Highway safety; Vehicles (land); Safety analysis; Transportation; Accident prevention.

RESEARCH AND DEVELOPMENT ACTIVITIES: The Office of Research conducts research programs in search for new techniques and products related to highway technology, while the Office of Development conducts the development and implementation activities needed to disseminate new techniques and products to the highway profession.

SPECIAL SCOPE FEATURES: The safety program is concerned with reducing the frequency and severity of accidents associated with skidding and loss of vehicle control, particularly on wet pavements. It is directed toward improvements in the construction and maintenance of skid resistant pavement surfaces; detection of sites which have a high potential for skidding; determining means for alerting vehicle operators to hazardous conditions; and the development of procedures, equipment and facilities for standardizing skid measurements.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Balmer, G. G.	Highway Safety	(703) 557-5275
Hegmon, R. R.	Mechanical Engineering	(703) 557-5275
Niessner, C. W.	Highway Safety	(202) 426-9217
Pilkington, II, G. B.	Highway Safety	(202) 426-9710
Rice, J. M.	Highway Safety	(703) 557-5211
Smith, R. W.	Highway Safety	(703) 557-5211

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

USER QUALIFICATIONS: General technology community; staff or members of affiliated organizations; government employees; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

FOOD AND DRUG ADMINISTRATION, POISON CONTROL PROGRAM

ADDRESS: Food and Drug Administration
5401 Westbard Avenue
Bethesda, MD
20016

TELEPHONE: (301)496-7691

DIRECTOR: Crotty, J. J.

YEAR INFORMATION SOURCE BEGAN: 1957

MISSION: To supply poison control centers with information on the potential hazards, symptoms, and treatment of ingestion of common chemical products.

SUBJECT SCOPE: Dangerous materials; Toxicology.

MAJOR SUBJECT TERMS: Consumer protection; Toxicity; Hazardous materials; Chemical hazards; Information retrieval; Accidents.

RESEARCH AND DEVELOPMENT ACTIVITIES: The program obtains information from industry, journals, textbooks, and other sources on formulation, toxicity symptomatology and treatment of household products and medicine for use in case of accidental poisoning. Evaluation and selective dissemination of this material is also within the scope of the program.

SPECIAL SCOPE FEATURES: The centers provide for the medical profession, on a 24-hour basis, information concerning the prevention and treatment of accidents involving ingestion of poisonous and potentially poisonous substances.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Verhulst, H. L.	Poison Control	(301)496-7691

STAFF: Full-time - professional 6, nonprofessional 7, total 13; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Newsletters/trade literature; reference lists/bibliographies.

HOLDINGS: Reports and reprints; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information; analytical studies; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Interlibrary loans.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: Staff or members of affiliated organizations.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: All services free to qualified users.

DECEMBER 1975

FOREST FIRE INFORMATION PROJECT (FIREBASE)

ADDRESS: Northern Forest Fire Laboratory
 Drawer G
 Missoula, MT
 59801

TELEPHONE: (406) 329-3501

DIRECTOR: Taylor, A. R.

PARENT-SPONSOR-HOST AFFILIATION: Department of Agriculture Forest Service

YEAR INFORMATION SOURCE BEGAN: 1975

MISSION: To provide land managers, fire scientists, and interested laymen with up-to-date digests of published and unpublished documents relating to wildland fire management and effects.

SUBJECT SCOPE: Fire, explosion and detonations; Wood and paper products; Environmental biology.

MAJOR SUBJECT TERMS: Fire prevention; Fires; Fire fighting; Fire extinguishing agents; Fire hazards; Environments; Personnel development; Fire fighting equipment; Forest fires.

SPECIAL SCOPE FEATURES: The Firebase data base specializes in wildlife fire information, both published and unpublished, including forest, range, shrubland and grassland fire but does not specialize in structural or chemical fire information except as it relates to wildlife fire. Some structural fire information relating to the wildlife-suburban interface is included. The firebase data base does specialize in fire and forest-range fuel fundamental combustion, pyrolysis and ignition characteristics.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Taylor, A. R.	Forest Fires; Information Retrieval	(406) 329-3501

STAFF: Full-time - professional 3, nonprofessional 2, total 5; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Indexes; newsletters/trade literature; reference lists/bibliographies.

HOLDINGS: Abstracts/indexes; total number of titles 3,100; range of years of total 1910.

DATA BANK RESOURCES:

Name or Acronym	Description of Contents	Range of Years	No. of Records
FIREBASE	Forests Fire Digests	1910	3,500

REFERENCE AND QUERY SERVICES: Retrospective searches.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Microfiche copy (some).

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

FRANKLIN-HAHNEMANN INST. (FHI)

ADDRESS: Schaff Building
1505 Race Street
Philadelphia, PA
19102

TELEPHONE: (215) 448-8656

DIRECTOR: Herrick, R.

PARENT-SPONSOR-HOST AFFILIATION: Franklin Institute; Hahnemann Medical College & Hosp.;
Health Service Plan of Pennsylvania

YEAR INFORMATION SOURCE BEGAN: 1973

MISSION: The FHI was created to evaluate, maintain and monitor the potential hazards of materials and processes, and the safety of workers in an industrial environment. It is also committed to the design and implementation of safety programs and efficient health care delivery in industry with emphasis on preventive medicine.

SUBJECT SCOPE: Man-machine hazards; Operations research; Safety analysis; Hygiene and sanitation; Biological and medical sciences; Behavioral and social sciences.

MAJOR SUBJECT TERMS: Industrial hygiene; Industrial safety; Environments; Safety engineering; Hazardous materials; Physiological hazards; Information retrieval; Safety analysis; Human factors engineering; Physiology.

SPECIAL SCOPE FEATURES: Ability to provide facilities for research and development in the following areas: management, information, continuing education and engineering. Consultation services in all aspects of occupational health.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Herrick, R. F.	Medicine	(215) 448-1155
Wendt, F. W.	Life Sciences	(215) 448-1155
Spencer, H. N.	Orthopedics	(215) 448-1155

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Conferences/symposiums.

USER QUALIFICATIONS: General technology community; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

ORIGINAL PAGE IS
OF POOR QUALITY

GARRELL RESEARCH FOUNDATION

ADDRESS: 1714 Lake Street
San Francisco, CA
94121

TELEPHONE: (415) 752-0871

DIRECTOR: Garbell, M. A.

PARENT-SPONSOR-HOST AFFILIATION: M.A.G. Consultants, Inc.

YEAR INFORMATION SOURCE BEGAN: 1948

MISSION: To furnish the US Government, the aerospace industry, other public bodies, and the general public, with technical information, conclusions and recommendations on aeronautical safety problems. To identify areas where safety problems, technological and operational uncertainties, and regulatory deficiencies exist, relative to the operation of aircraft and airports, land-use restrictions in areas adjacent to airports, and to initiate research programs both in-house and under contract in these problem areas.

SUBJECT SCOPE: Aircraft problems; Air facilities; Meteorology; Aeronautics; Aircraft flight instrumentation; Safety engineering; Thermodynamics; Safety analysis; Acoustics.

MAJOR SUBJECT TERMS: Accident investigation; Safety engineering; Safety analysis; Safety procedures; Safety equipment; Detectors; Acoustics; Acceleration; Thermodynamics; Flight control; Flight instruments; Flight paths; Meteorology; Human factors engineering; Aircraft safety; Aircraft problems; Civil aviation; Aeronautics; Airports.

RESEARCH AND DEVELOPMENT ACTIVITIES: Safety-related research and studies performed in San Francisco offices, and in-flight evaluations with the co-operation of major trunk-airline and intra-State airlines operators. Technical staff provides consultative assistance to cities, county airport land use commissions, and developers throughout the United States in matters of safety-compatible operation and land-use planning.

SPECIAL SCOPE FEATURES: Principal expertise is in the combined fields of aerodynamics, aeronautical engineering, aircraft performance engineering, meteorology and noise aspects which relate to aircraft safety and the safety on land uses near airports. Leading exponent in safety evaluation of the aerodynamic and pilot-technique aspects of major aircraft accidents.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Garbell, M. A.	Aerospace Engineering	(415) 752-0871

STAFF: Full-time - professional 2, nonprofessional 1, total 3; part-time - professional 1, nonprofessional 4, total 5.

INTERNAL PUBLICATIONS: Technical reports.

HOLDINGS: Books; reports and reprints; periodicals; standards and specifications; total number of titles over 6,000.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation; translations.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community; government employees; government contractors.

USER RESTRICTIONS: None; federal security clearance (classified material).

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

GENERAL ELECTRIC CO., HIGH VOLTAGE LABORATORY (HVL)

ADDRESS: 100 Woodlawn Avenue
Pittsfield, MA
01201

TELEPHONE: (413) 494-3575

DIRECTOR: Plumer, A. J.

MISSION: The High Voltage Laboratory supports both industry's and government's development of power transmission equipment by conducting research in the fields of natural lightning, high voltage and high current phenomena. The Environmental Electromagnetics Unit, formed in 1972, applies lightning research and effects and related high voltage and high current pulse technology including nuclear electromagnetic pulse effects to the needs of government and industry.

SUBJECT SCOPE: Safety analysis; Aircraft; Atmospheric physics; (Electrical) components; Electronic and electrical engineering; (Electrical) subsystems; Safety engineering; Laboratories, test facilities and test equipment; Electricity and magnetism.

MAJOR SUBJECT TERMS: Safety engineering; Safety equipment; Shielding; Safety analysis; Safety procedures; Industrial safety; Range safety; Safety engineering; Electricity; Physical properties; Lightning; Atmospheres; Aircraft safety; Fabrication; Aerospace engineering.

RESEARCH AND DEVELOPMENT ACTIVITIES: Lightning protection, lightning instrumentation, evaluation of lightning protection systems, nuclear electromagnetic pulse protection design, and the effects of high intensity electrical currents are the areas of current research.

SPECIAL SCOPE FEATURES: Laboratory capabilities include the following: Laboratory simulation of the natural effects of lightning, man-made transients, static electricity and WEMP; Analytical studies by analog or digital modeling techniques where laboratory evaluations are impractical or uneconomical; field measurements of natural phenomena.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Plumer, A. J.	Lightning	(413) 494-3575
Fisher, F. A.	Electromagnetism	(413) 494-4380
Crouch, K. E.	Nuclear Physics	(413) 494-3531
Maxwell, K. J.	Physics	(413) 494-3531
Walko, L. C.	Lightning	(413) 494-3531

STAFF: Full-time - professional 26, nonprofessional 4, total 30; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; statistical compilations; newsletters/trade literature; conference papers; standards and specifications.

REFERENCE AND QUERY SERVICES: Selective dissemination of information; analytical studies; advisory and consulting services; scientific or statistical data retrieval/compilation.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community; government contractors.

USER RESTRICTIONS: Industrial/corporate security clearance.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

ORIGINAL PAGE IS
OF POOR QUALITY

GEORGE WASHINGTON UNIV., SCHOOL OF ENGINEERING AND APPLIED SCIENCE

ADDRESS: School of Engineering and Applied Science
The George Washington University
Washington, DC
20052

TELEPHONE: (202) 676-6106

DIRECTOR: Mansfield, J. E.

YEAR INFORMATION SOURCE BEGAN: 1969

MISSION: To enhance the competence of practicing engineers through state-of-the-art information in such fields as mathematical methods in decision-making or modelling.

SUBJECT SCOPE: Mathematics and statistics; Reliability; Human factors engineering; Safety engineering; Operations research.

MAJOR SUBJECT TERMS: Safety engineering; Operations research; Accidents; Human factors engineering; Reliability; Failure.

RESEARCH AND DEVELOPMENT ACTIVITIES: R & D in statistical methods for reliability and system safety engineering.

SPECIAL SCOPE FEATURES: System Safety and System Safety Applications, Workshop in System Safety and Introduction to Fault Tree Analysis.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Grosse, V. L.	Systems Engineering	(202) 676-6106
Singpurwalla, N. D.	Reliability	(202) 676-7515

STAFF: Full-time - professional 7, nonprofessional 4, total 11; part-time - professional 0, nonprofessional 20, total 20.

INTERNAL PUBLICATIONS: Conference papers.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information; analytical studies; referrals.

OTHER SERVICES: On-site use of collection; courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

GEORGIA INST. OF TECHNOLOGY, ENGINEERING EXPERIMENT STATION

ADDRESS: Georgia Institute of Technology
Atlanta, GA
30332

TELEPHONE: (404) 894-3401

DIRECTOR: Long, M. W.

YEAR INFORMATION SOURCE BEGAN: 1919

MISSION: To promote the general welfare of the people of Georgia through scientific engineering and industrial research. To provide technical advice and assistance to business and industry. To encourage more complete development and utilization of the natural resources of Georgia. To assist national programs of science, technology and preparedness.

SUBJECT SCOPE: Meteorology; Hygiene and sanitation; Environmental biology; Bioengineering; Electronic and electrical engineering; Power sources; Materials; Laboratories, test facilities and test equipment; Research; Crystallography; Physics; Electricity and magnetism.

MAJOR SUBJECT TERMS: Materials; Materials tests; Test equipment; Mechanical properties; High strength alloys; Nondestructive evaluation; Failure; Materials; Acoustics; Physical properties; Electromagnetic radiation; Telecommunications; Radar; Environments; Atmospheres; Life sciences; Earth sciences.

RESEARCH AND DEVELOPMENT ACTIVITIES: Research and development in most areas of engineering. Relevant current projects include: remote sensing analysis, waste and fuel research and fracture mechanics.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Dean, H. G.	Information Retrieval	(404) 894-3492
Harrison, G. R.	Nuclear Physics; Physics; Life Sciences	(404) 894-3414
Brown, J. L.	Instruments	(404) 894-3460
Poulds, N.	High Temperature	(404) 894-3430
Robertson, D. W.	Telecommunications	(404) 894-3542
Ecker, H. A.	Radar	(404) 894-3523
Goodman, R. M.	Sensors	(404) 894-3507

STAFF: Full-time - professional 175, nonprofessional 116, total 291; part-time - professional 0, nonprofessional 181, total 181.

INTERNAL PUBLICATIONS: Technical reports.

HOLDINGS: Books; reports and reprints; periodicals; total number of titles 1,000,000.

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information; analytical studies; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Reproduction/publication services; courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy; microfiche copy.

USER QUALIFICATIONS: General technology community; staff or members of affiliated organizations; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

GOVERNMENT-INDUSTRY DATA EXCHANGE PROGRAM (GIDEP)

ADDRESS: US Navy FMSAEG
GIDEP Operations Center
Code 8033
Corona, CA
91720

TELEPHONE: (714) 736-4677

DIRECTOR: Richards, E.

PARENT-SPONSOR-HOST AFFILIATION: Dept. of Defense; NASA

YEAR INFORMATION SOURCE BEGAN: 1960

MISSION: Provides for exchange of reliability, quality engineering, safety and test equipment related data on parts components and materials, for use by government and industry organizations. The program also provides two communication services: the Alert Data System to identify defective items and safety related problems; and the Urgent Data Request (UDR) Data System for obtaining specialized data from program participants.

SUBJECT SCOPE: Reliability; All ASRDI categories.

MAJOR SUBJECT TERMS: Reliability; Information retrieval; Maintenance; Quality control; Research and development; Aeronautics; Electronics; Materials; Civil engineering; Mechanical engineering; Test equipment; Missiles; Navigation aids; Nuclear physics; Nuclear engineering; Propulsion; Engines; Fuels; Aerospace engineering.

SPECIAL SCOPE FEATURES: Services are primarily for government agencies, their contractors, consultant organizations and educational institutions, and are provided to others who qualify. Requirements for participants in the Program are based on the reciprocal exchange of data and the ability to provide an internal program operation to include at least one representative, a microfilm reader-printer and adequate working area within the facility.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Richards, E.	Reliability	(714) 736-4677

STAFF: Full-time - professional 6, nonprofessional 1, total 7; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; conference papers; standards and specifications; magnetic tape bibliographic data.

HOLDINGS: Abstracts/indexes; reports and reprints; reference lists/bibliographies; standards and specifications; statistical compilations; films and slides; total number of titles 90,000; range of years of total 1960.

DATA BANK RESOURCES:

Name or Acronym	Description of Contents	Range of Years	No. of Records
Engineering (EDB)	Technical Reports, Engineering Data	1960	45,000
Metrology (MDB)	Metrology Related Data, Procedures, Calibration	1968	15,000
Failure experience (ALERT)	Parts, Materials, and Safety Problems	1968	1500
Urgent data request (UDR)	Data Query for Engineering Specialists	1968	150 per year
Failure rate (FRDB)	Field Operational Reliability Experience Data	1962	50,000

GOVERNMENT-INDUSTRY DATA EXCHANGE PROGRAM (GIDEP)

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; referrals; scientific or statistical data retrieval/compilation; custom abstracting and indexing services.

OTHER SERVICES: On-site use of collection; courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy; microfilm copy.

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations; government employees; government contractors.

USER RESTRICTIONS:

PRICING AND SERVICES CHARGES: All services free to qualified users.

DECEMBER 1975

GOVERNMENT RESEARCH LABORATORY (GRL)

ADDRESS: P.O. Box 8
Linden, NJ
07036

TELEPHONE: (201) 474-0100

DIRECTOR: Berger, M.

PARENT-SPONSOR-HOST AFFILIATION: Exxon Research and Engineering Company

YEAR INFORMATION SOURCE BEGAN: 1965

MISSION: Gather, process and analyze information according to the requirements, specifications and criteria of the user.

SUBJECT SCOPE: Lasers; Combustion and ignition; Nonpropulsive energy conversion; Fuels.

MAJOR SUBJECT TERMS: Fuels; Combustion; Energy; Solar radiation; Lasers; Fire protection; Fire prevention.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Nixon, J.	Fire Protection; Fire Prevention	(202) 833-8100

PRICING AND SERVICES CHARGES: Charge for some services to qualified users; negotiated contracts on major inquiries.

DECEMBER 1975

HAZARDS RESEARCH CORPORATION (HRC)**ADDRESS:**

Denville, NJ
07834

TELEPHONE: (201) 627-4560

DIRECTOR: Grelecki, C. J.

YEAR INFORMATION SOURCE BEGAN: 1969

MISSION: To provide expert technical consultation, laboratory and field test services to commercial and government agencies faced with problems in chemical fire and explosion hazards. The organization has also developed capabilities in transportation hazards evaluation, in-plant seminars on fire and explosion hazards evaluation, accident investigation and hazardous waste disposal.

SUBJECT SCOPE: Safety analysis; Dangerous materials; Fire, explosion and detonations; Chemical hazards.

MAJOR SUBJECT TERMS: Hazardous materials; Chemical engineering; Personnel development; Toxicity; Transportation; Energy; Combustion; Propellants; Fuels; Sanitation; Test equipment; Accident investigations; Safety engineering; Operations research; Safety analysis; Safety equipment; Explosions; Pyrotechnics; Deflagration; Fire hazards; Waste disposal.

RESEARCH AND DEVELOPMENT ACTIVITIES: Investigation in shock sensitivity and detonability, thermal explosion, autoignition, vapor flames, gases, mists and dusts. Also evaluating the fire and explosion hazards inherent in chemical process mixtures, processing equipment and products, including propellants, explosives and pyrotechnics.

SPECIAL SCOPE FEATURES: Professional chemical-engineering services available include: process review, laboratory and pilot plant experiments, design engineering and field services. Services in combustible and/or toxic gases include: problem definition, atmosphere monitoring, and corrective counseling. Continuing education services are also available.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Grelecki, C.	Fire Hazards; Explosions	(201) 627-4560
Cruice, W. J.	Education	(201) 627-4560
Tunkel, S. J.	Chemical Engineering	(201) 627-4560
Petino, G.	Mechanical Engineering; Explosives	(201) 627-4560

STAFF: Full-time - professional 7, nonprofessional 3, total 10; part-time - professional 1, nonprofessional 1, total 2.

INTERNAL PUBLICATIONS: Newsletters/trade literature.

HOLDINGS: Reports and reprints; periodicals.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community; government contractors.

USER RESTRICTIONS: Federal security clearance.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

IIT RESEARCH INST. (IITRI)

ADDRESS: 10 West 35th Street
Chicago, IL
60616

TELEPHONE: (312) 567-4000

DIRECTOR: Schulz, E. H.

PARENT-SPONSOR-HOST AFFILIATION: Illinois Institute of Technology

YEAR INFORMATION SOURCE BEGAN: 1936

MISSION: Serves industry and government as a contract research organization. Activities encompass nearly all of the physical sciences and their related techniques.

SUBJECT SCOPE: Reliability; Ammunition, explosives and pyrotechnics; Fire, explosion and detonation; Safety analysis; Propulsion, engines and fuels; Aircraft problems; Air facilities; Mathematical sciences; Human factors engineering; Operations research; Safety engineering; Laboratories, test facilities and test equipment.

MAJOR SUBJECT TERMS: Aerospace medicine; Transportation; Vehicles (land); Highway safety; Nondestructive evaluation; Test equipment; Explosives; Propellants; Engines; Fires; Fire resistant materials; Fire fighting; Fire hazards; Reliability; Operations research; Maintenance; Structural materials; Aircraft safety; Air traffic control; Materials.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performs research in a variety of technical areas including metals, chemistry and chemical engineering, mechanics of materials, electronics, engineering mechanics and medical engineering, and life sciences.

SPECIAL SCOPE FEATURES: IITRI maintains well-equipped laboratories for conducting fire research at full scale or with models, and for experimental research in heat and mass transfer, combustion, and related subjects, including analytical and experimental modeling of fire phenomena, full-scale fire tests, fire hazards of combustible building materials, smoke abatement methods, development and evaluation of combustion - characterization tests, and heat transfer research and development. Radiant Source facility is also available. Other areas include human factors engineering, hazards analysis, systems safety, and fault tree analysis.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Longinow, A.	Structural Failure	(312) 567-4805
Wakeley, H.	Human Factors Engineering	(312) 567-4757
Cornish, R.	Structural Materials	(312) 567-4011
Klein, M.	Propellants; Fuels	(312) 567-4300
Waterman, T.	Fires	(312) 567-4784
Napadensky, A.	Safety Analysis	(312) 567-4782
Brueschke, E.	Aerospace Medicine	(312) 567-4925
Jones, L.	Standards	(312) 567-4793
Bridges, J.	Microwaves; Lasers; Thermal Radiation; Ultraviolet Radiation	(312) 567-4488

STAFF: Full-time - professional 80, nonprofessional 20, total 100; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Periodicals/journals.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

IIT RESEARCH INST. (IITRI)

DATA BANK RESOURCES:

Name or Acronym	Description of Contents	Range of Years	No. of Records
--	Comprehensive Science and Technology Bibliographic Data Base	1968-	300,000-400,000

REFERENCE AND QUERY SERVICES: Analytical studies; advisory and consulting services.

OTHER SERVICES: On-site use of collection.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Not available.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

INDIANA UNIVERSITY, PHYSIOLOGY DEPARTMENT

ADDRESS: Meyers Hall
 Indiana University School of Medicine
 Bloomington, IN
 47401

TELEPHONE: (812) 337-5888 ext 3115

DIRECTOR: Elizondo, R. S.

YEAR INFORMATION SOURCE BEGAN: 1960

MISSION: To define and quantify the physiological changes associated with man's adaptation to environmental stress.

SUBJECT SCOPE: Physiology; Stress physiology; Biochemistry; Man-machine hazards.

MAJOR SUBJECT TERMS: Physiology; Physiological hazards.

RESEARCH AND DEVELOPMENT ACTIVITIES: Research interests include comparative thermoregulation, physiology and biochemistry of eccrine sweat gland function, and comparative renal physiology and water balance.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Elizondo, R. S.	Physiology	(812) 337-5888 ext 3115

STAFF: Full-time - professional 3, nonprofessional 2, total 5; part-time - professional 0, nonprofessional 3, total 3.

INTERNAL PUBLICATIONS: Abstracts; technical reports; periodicals/journals.

HOLDINGS: Books; reports and reprints; periodicals; reference lists/bibliographies; total number of titles 1,500; range of years of total 50 years.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: All services free to qualified users.

DECEMBER 1975

INDUSTRIAL RISK INSURERS

ADDRESS: 85 Woodland Street
Hartford, CT
06102

TELEPHONE: (203) 525-2601

DIRECTOR: Powers, F. C.

YEAR INFORMATION SOURCE BEGAN: 1890

MISSION: To provide advisory engineering services for the control of losses resulting from fire, leakage from fire-protective equipm, lightning, wind and hail, explosion, smoke, aircraft and vehicles, sonic boom, riot, civil commotion and vandalism, and molten material in industrial properties. The Industrial Risk Insurers is a consolidation of the former Factory Insurance and Oil Insurance Associations.

SUBJECT SCOPE: Fire, explosion and detonations; Dangerous materials; Nuclear safety.

MAJOR SUBJECT TERMS: Safety engineering; Explosions; Fire prevention; Fire resistant materials; Fire hazards; Explosives; Combustion; Hazardous materials; Fires; Fabrication; Structural materials; Reactor safety; Fire insurance.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts investigations of performance characteristics of methods and materials used in the control of industrial property-damage hazards.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext.(x)
Barritt, J. S.	Fire Protection; Fire Insurance	(203) 525-2601, ext. 250

STAFF: Full-time - professional 500, nonprofessional 100, total 600; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; indexes; periodicals/journals; newsletters/trade literature.

HOLDINGS: Books; reports and reprints; periodicals; standards and specifications; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; advisory and consulting services.

OTHER SERVICES: Courses/workshops.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: All services free to qualified users.

DECEMBER 1975

ORIGINAL PAGE IS
OF POOR QUALITY

INSTITUTE OF FRACTURE AND SOLID MECHANICS

ADDRESS: Institute of Fracture and Solid Mechanics
Packard Laboratory
Lehigh University
Bethlehem, PA
18015

TELEPHONE: (215) 691-700 ext. 376

DIRECTOR: Sih, G. C.

PARENT-SPONSOR-HOST AFFILIATION: Lehigh University

YEAR INFORMATION SOURCE BEGAN: 1970

MISSION: To coordinate and promote interdisciplinary research and education among Lehigh engineers and scientists working in areas that utilize the concepts of fracture and solid mechanics.

SUBJECT SCOPE: Mechanics of structural failure; Structural materials limitations; Metals; Composite materials; Mathematics and statistics; Structural engineering; Mechanics.

MAJOR SUBJECT TERMS: Mechanical engineering; Structural engineering; Structural failure; Fatigue (materials); Materials tests; Mechanical properties; Physical properties; Fracture mechanics.

RESEARCH AND DEVELOPMENT ACTIVITIES: Current research areas include: Analytical Fracture Mechanics, Experimental Fracture Mechanics, Analytical and Numerical Methods in Solid Mechanics, and Plates and Shells.

SPECIAL SCOPE FEATURES: The institute conducts a Fracture and Solid Mechanics Liaison Program with private industries and with governmental agencies. This program allows participants to make use of the personnel of the institute through consultation with faculty members and summer employment of graduate students. The institute will also conduct materials testing programs in its laboratories. In addition to various fracture toughness tests, photoelastic analysis of two-and-three dimensional stress distributions can be arranged.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Chen, T. E. P.	Mechanical Engineering; Fracture Mechanics	(215) 691-7000 ext. 792
Fang, H. Y.	Civil Engineering	(215) 691-7000 ext. 2250
Manson, J. A.	Chemistry	(215) 691-7000 ext. 2295
Hasselman, D. P. H.	Metallurgy	(215) 691-7000 ext. 681
Wei, R. P.	Mechanical Engineering; Fracture Mechanics	(215) 691-7000 ext. 2296
Erdogan, F.	Mechanical Engineering; Fracture Mechanics	(215) 691-7000 ext. 495

STAFF: Full-time - professional 17, nonprofessional 3, total 20; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Books; handbooks/manuals; technical reports; periodicals/journals; conference papers.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides; total number of titles 50,000.

REFERENCE AND QUERY SERVICES: Questions answered individually.

OTHER SERVICES: Reproduction/publication services; courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community; immediate staff or members; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

INSTITUTE OF GAS TECHNOLOGY (IGT)

ADDRESS: 3424 South State Street
IIT Center
Chicago, IL
60616

TELEPHONE: (312) 225-9600

DIRECTOR: Linden, H. R.

PARENT-SPONSOR-HOST AFFILIATION: Illinois Institute of Technology

MISSION: The Institute of Gas Technology is an educational and research organization sponsored and supported by the gas industry for the purposes of full time research and educational and support services.

SUBJECT SCOPE: Industrial safety manuals, codes, specifications, standards; Nonpropulsive energy conversion; Power sources; Energy storage; Air conditioning, heating, lighting and ventilation; Missile technology; Cryogenic safety.

MAJOR SUBJECT TERMS: Industrial safety; Safety procedures; Compressed gas; Liquified gases; Cryogenic fluid safety; Gas detectors; Hazardous materials; Methane; Hydrogen; Oxygen; Personnel development; Shipping regulations; Energy; Fuels; Combustion; Fire prevention; Information retrieval.

RESEARCH AND DEVELOPMENT ACTIVITIES: Sponsored and in-house research conducted in 1974 include the following projects: Conversion of Waste Materials to Methane; Fundamental Studies of Fluidized-bed Combustion; Odorization of LNG; Vapor-liquid equilibria in Cryogenic Systems; Control of emissions from combustion and gasification processes.

SPECIAL SCOPE FEATURES: IGT provides a full range of educational services including programs leading to doctorate and masters degrees and off-campus presentations of courses. Users may also have use of MASTIR, an IGT service that provides fast access to a central repository of world wide information of interest to the gas industry.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Gregory, D. P.	Hydrogen	(312) 225-9600 ext 638
Pangborn, J. B.	Hydrogen	(312) 225-9600 ext 653
Mensch, H. L.	Information Retrieval	(312) 225-9600 ext 626
Waterman, W. W.	Education	(312) 225-9600 ext 604

STAFF: Full-time - professional 167, nonprofessional 186, total 353; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Abstracts; technical reports; periodicals/journals; newsletters/trade literature; conference papers.

HOLDINGS: Books; reports and reprints.

DATA BANK RESOURCES:

Name or	Description of Contents	Range of Years	No. of
ACRONYM			Records
TERMATREX	Gas technology, research and education information		

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; prior art/patent searches; analytical studies; advisory and consulting services; bibliographic abstracts.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy; microfilm copy.

USER QUALIFICATIONS: General technology community; government employees; government contractors.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

INSTITUTE OF SAFETY AND SYSTEMS MANAGEMENT, RESEARCH CENTER

ADDRESS: Institute of Safety and Systems Management
University of Southern California
University Park
Los Angeles, CA
90007

TELEPHONE: (213) 746-5395

DIRECTOR: Bernberg, P. E.

PARENT-SPONSOR-HOST AFFILIATION: Univ. of Southern California

YEAR INFORMATION SOURCE BEGAN: 1970

MISSION: To provide the ways in which the faculty may focus on the areas of transportation safety, transportation systems analysis, transportation-public acceptance and transportation-advanced concepts; to place particular emphasis on the development of faculty, facilities and support in the area of Traffic Safety Research, Education and Training and Information Services.

SUBJECT SCOPE: Safety analysis; Human factors engineering; Ground transportation equipment; Dangerous materials.

MAJOR SUBJECT TERMS: Transportation; Human factors engineering; Highway safety; Vehicles (land); Tests; Safety analysis; Hazardous materials.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performs contracted and selected research in transportation safety and human factors related fields and translate findings into seminars, symposia, short-courses and academic education and training wherever feasible, employing multidisciplinary and interdisciplinary approaches.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Baird, J. D.	Transportation; Safety Procedures	(213) 746-7920
Stapp, J. P., M.D.	Human Factors Engineering; Human Performance	(213) 746-7958
Small, A. M., Ph.D.	Human Factors Engineering	(213) 746-7958
Jones, M. H.	Tests; Information Retrieval	(213) 746-7958
Philipson, L. L.	Safety Analysis	(213) 746-7894
Hurt, W. H., Jr.	Highway Safety	(213) 746-2514

STAFF: Full-time - professional 26, nonprofessional 4, total 30; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; graphics/tables; films and slides and video tapes.

DATA BANK RESOURCES:

Name or ACRONYM	Description of Contents	Range of Years	No. of Records
NTSB	U.S. Civil Aircraft Accident Data	1961-	approx. 50,000
BMSC	All Federally regulated interstate trucks in accidents over \$2500 per accident	1973	31,121 accidents
BMCS	All Federally regulated interstate trucks in accidents over \$2500 per accident	1966-69, 71, 72	283,000
CPIR	All Federally regulated interstate trucks in accidents over \$2500 per accident	Rev 2 & 3	16
TUC	All Federally regulated interstate trucks in accidents over \$2500 per accident		993
Dade Co., Fla	All Federally regulated interstate trucks in accidents over \$2500 per accident	1970-73	42,200

INSTITUTE OF SAFETY AND SYSTEMS MANAGEMENT, RESEARCH CENTER

DATA BANK RESOURCES:

Name of Agency	Description of Contents	Range of Years	No. of Records
Denver Co., Colo.	All Federally regulated interstate trucks in accidents over \$2500 per accident	1969-73	28,800
Indiana Turnpike	All Federally regulated interstate trucks in accidents over \$2500 per accident	1966-70	1,709
King, Co., Wash.	All Federally regulated interstate trucks in accidents over \$2500 per accident	1970-73	29,100
Washington Fatals	All Federally regulated interstate trucks in accidents over \$2500 per accident	1970-72	915
Michigan Fatals	All Federally regulated interstate trucks in accidents over \$2500 per accident	1970-73	1,590
Texas-Bexar Co.	All Federally regulated interstate trucks in accidents over \$2500 per accident	1969-74	35,900
New York Level 1	All Federally regulated interstate trucks in accidents over \$2500 per accident	1970	2,946
Pennsylvania	All Federally regulated interstate trucks in accidents over \$2500 per accident	1968	4,601
New York Level 2	All Federally regulated interstate trucks in accidents over \$2500 per accident	1970-73	6,100
Ohio Turnpike	All Federally regulated interstate trucks in accidents over \$2500 per accident	1966-70	2,093
Oakland Co.	All Federally regulated interstate trucks in accidents over \$2500 per accident	1968-73	26,730
Texas-5% Sample	All Federally regulated interstate trucks in accidents over \$2500 per accident	1969-74	34,400
Texas-Fatal	All Federally regulated interstate trucks in accidents over \$2500 per accident	1969-74	6,360
Texas-Truck	All Federally regulated interstate trucks in accidents over \$2500 per accident	1969-74	59,000

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; analytical studies; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Reproduction/publication services; courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community and educational institutions; government contractors and agencies.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

INSTITUTE OF SAFETY AND SYSTEMS MANAGEMENT, SAFETY CENTER

ADDRESS: The Safety Center
Institute of Safety and Systems Management
University of Southern California
Los Angeles, CA
90007

TELEPHONE: (213) 746-2415

DIRECTOR: Canaday, R. M.

PARENT-SPONSOR-HOST AFFILIATION: Univ. of Southern California

YEAR INFORMATION SOURCE BEGAN: 1953

MISSION: To maintain an international center of excellence in safety education and training through offerings of graduate, undergraduate and special intensive training programs. To conduct safety research on contract and non-contract basis; to provide a center for conferences, symposia, and workshops for safety educational purposes; to perform services to the community in the area of safety; and to sustain information services through libraries, publications and consulting actions.

SUBJECT SCOPE: Mechanics of structural failure; Man-machine hazards; Structural materials limitations (metallic and nonmetallic); Fire, explosion and detonations; Aircraft problems; Industrial safety manuals, codes, specifications, standards, etc.; Safety analysis; Human factors engineering; Dangerous materials.

MAJOR SUBJECT TERMS: Aerospace engineering; Safety engineering; Aircraft problems; Human factors engineering; Accident investigation; Accident prevention; Safety analysis; Structural failure; Structural materials; Hydraulics; Explosives; Industrial safety; Safety regulations; Industrial hygiene; Transportation; Fires; Hazardous materials; Education.

SPECIAL SCOPE FEATURES: Expertise in safety education emphasizing multidisciplinary features in terms of safety management; safety technology and human factors. Capability for design, development and presentations of safety education and training requirements ranging from singular subject matter or intensive course training to degree programs at undergraduate and graduate levels.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Canaday, R. M.	Education; Safety Engineering	(213) 746-2415

STAFF: Full-time - professional 18, nonprofessional 11, total 29; part-time - professional 35, nonprofessional 0, total 35.

INTERNAL PUBLICATIONS: Books, textbooks, workbooks; handbooks/manuals; technical reports; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Books 5,500; abstracts/indexes; reports and reprints; microfilm 350; periodicals; reference lists/bibliographies; standards and specifications; films and slides; technical manuals; newsletters-trade literature.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; referrals; bibliographic abstracts.

OTHER SERVICES: On-site use of collection; interlibrary loans; reproduction/publication services; courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community; staff or members of affiliated organizations; government employees.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1974

INSTITUTE OF SAFETY AND SYSTEMS MANAGEMENT, TRAFFIC SAFETY CENTER

ADDRESS: Institute of Safety and Systems Management
University of Southern California
University Park
Los Angeles, CA
90007

TELEPHONE: (213) 746-5395

DIRECTOR: Jones, G. P.

PARENT-SPONSOR-HOST AFFILIATION: Univ. of Southern California

YEAR INFORMATION SOURCE BEGAN: 1975

MISSION: To provide education and training programs; conduct accident and traffic safety research programs; provide a center for conferences, symposia and seminars; provide information services through libraries, publications, and consulting services; all as related to the study of accident causation and prevention.

SUBJECT SCOPE: Safety analysis; Ground transportation equipment; Dangerous materials; Human factors engineering.

MAJOR SUBJECT TERMS: Information retrieval; Accident prevention; Vehicles (land); Highway safety; Hazardous materials; Transportation; Human factors engineering; Education.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performs selected research in traffic safety and translates findings into seminars, symposia, short courses, and academic education and training, with emphasis on developing educators in the field, traffic safety manpower development, and awareness broadening towards traffic safety for professionals and management personnel.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Flamboe, E. E.	Accident Investigation	(213) 746-5395

STAFF: Full-time - professional 10, nonprofessional 2, total 12; part-time - professional 5, nonprofessional 5, total 10.

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; statistical compilations; newsletters/trade literature; conference papers; reference lists/bibliographies.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; graphics/tables; films and slides and video tapes.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; analytical studies; advisory and consulting services; referrals.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community; education, community and government agencies.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

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INTERNATIONAL ASSOCIATION OF CHIEFS OF POLICE (IACP)

ADDRESS: 11 Firstfield Road
Gaithersburg, MD
20760

TELEPHONE: (301) 948-0922

DIRECTOR: King, G. D.

YEAR INFORMATION SOURCE BEGAN: 1893

MISSION: To foster police cooperation and the exchange of information and experience among police administrators internationally and to professionalize the police service in all parts of the world through the development and dissemination of sophisticated techniques in areas ranging from specialized training to executive development.

SUBJECT SCOPE: Dangerous materials; Safety analysis; Personnel selection, training, and evaluation; Operations, strategy and tactics; Intelligence.

MAJOR SUBJECT TERMS: Safety analysis; Highway safety; Airports; Personnel development; Explosives; Information retrieval; Security.

RESEARCH AND DEVELOPMENT ACTIVITIES: The identification of critical issues in law enforcement and security with the purpose of isolating impacting factors and to then design doctrine and countermeasures.

SPECIAL SCOPE FEATURES: Use and development of canine units in bomb detection.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Kelly, J.	Airports; Security	(301) 948-0922

STAFF: Full-time - professional 75, nonprofessional 75, total 150; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; technical reports; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services; referrals.

OTHER SERVICES: On-site use of collection; courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community; staff or members of affiliated organizations.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

INTERNATIONAL ASSOCIATION OF FIRE CHIEFS, INC. (IAFC)

ADDRESS: Suite 1112
1725 K Street, N.W.
Washington, DC
20006

TELEPHONE: (202) 833-3420

DIRECTOR: Hurley, J. F.

YEAR INFORMATION SOURCE BEGAN: 1973

MISSION: To support the members and staff of the IAFC, government agencies and representation, industry, and other users with information and research on all aspects of the problem of hostile fire in the environment; to serve as a clearing house for fire information to provide a medium of information collection, identification and distribution to the fire service; to provide a forum for expression of ideas and discussion of current topics.

SUBJECT SCOPE: Safety analysis; Industrial safety manuals, codes, specifications, standards; Fire, explosion and detonations; Safety engineering; Structural materials limitations (metallic and non-metallic).

MAJOR SUBJECT TERMS: Hazardous materials; Compressed gas; Liquified gases; Radioactive spills; Fabrication; Structural materials; Structural engineering; Rescue operations; Personnel development; Explosives; Combustion; Safety analysis; Safety engineering; Safety regulations; Fire hazards; Fires; Fire fighting; Fire prevention; Fire resistant materials; Fire extinguishing agents.

RESEARCH AND DEVELOPMENT ACTIVITIES: Fire ground operations, administration, and safety related activities related to fire or the rescue service.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Quay, D.	Information Retrieval; Fires	(202) 833-3420

STAFF: Full-time - professional 4, nonprofessional 10, total 14; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information; advisory and consulting services; referrals.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community; immediate staff or members; government employees; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO)

ADDRESS: 5360 South Workman Mill Road
Whittier, CA
90601

TELEPHONE: (213) 699-0541

DIRECTOR: Bihr, J. E.

YEAR INFORMATION SOURCE BEGAN: 1922

MISSION: Publication, maintenance and promotion of the Uniform Building Code and its related documents; investigation and research of principles underlying safety to life and property in the construction, use and location of buildings and related structures; development and promulgation of uniformity in regulations pertaining to building construction; education of the building official; and formulation of guidelines for the administration of building inspection departments.

MAJOR SUBJECT TERMS: Standards; Structural engineering; Structural materials; Safety regulations; Materials; Fabrication; Inspection; Construction.

RESEARCH AND DEVELOPMENT ACTIVITIES: Examination, evaluation and recommendation of alternate methods of construction and building products; the evaluation and certification of quality control agencies and agencies involved in both inspection and testing.

SPECIAL SCOPE FEATURES: Building codes, specifications, standards, etc.; Structural engineering; Construction materials.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Carter, T. H.	Structural Engineering	(213) 699-0541 ext 35
Bihr, J. E.	Structural Engineering	(213) 699-0541 ext 25
Watson, D. P.	Structural Engineering; Information Retrieval	(213) 699-0541 ext 40

STAFF: Full-time - professional 19, nonprofessional 17, total 36; part-time - professional 4, nonprofessional 0, total 4.

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; technical reports; periodicals/journals; newsletters/trade literature; conference papers; standards and specifications.

HOLDINGS: Books; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; films and slides; total number of titles 500; range of years of total 54.

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information; state-of-the-art reviews; analytical studies; advisory and consulting services; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Interlibrary loans; reproduction/publication services; courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy; microfilm copy; microfiche copy.

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations; government employees; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users; charge for user outside organization.

DECEMBER 1975

INTERNATIONAL PLANETARY PATROL

ADDRESS: Box 1269
Flagstaff, AZ
86001

TELEPHONE: (602) 774-3358

DIRECTOR: Baum, W. A.

PARENT-SPONSOR-HOST AFFILIATION: Planetary Research Center, Lowell Observatory

YEAR INFORMATION SOURCE BEGAN: 1969

MISSION: To obtain uninterrupted imaging in order to investigate the day to day and hour to hour changes in the large scale atmospheric and surface features of the planets.

SUBJECT SCOPE: Extraterrestrial environmental hazards; Physics; Astronomy; Atmospheric sciences.

MAJOR SUBJECT TERMS: Extraterrestrial environments; Atmospheres; Astronomy; Physics.

RESEARCH AND DEVELOPMENT ACTIVITIES: Recent and current research includes the distribution and motion of clouds on Mars, the development and decay of Martian dust storms, the seasonal, diurnal and random fluctuations in contrast between adjacent light and dark regions on Mars, the detection of vertical shear in the Jovian atmosphere, the longitudinal oscillation of the Red Spot, the dependence of rotation period on xenographic latitude and on time, the eruption and spread of SEB disturbances, and the retrograde circulation of the Venus cloud deck.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Baum, W. A.	Astronomy	(602) 774-3358
Capen, C. F.	Astronomy	(602) 774-3358
Martin, L. J.	Astronomy	(602) 774-3358

DECEMBER 1975

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INTERNATIONAL SAFETY ACADEMY (ISA)

ADDRESS: 1021 Georgia Avenue
Macon, GA
31201

TELEPHONE: (912) 746-7677

DIRECTOR: O'Shell, H. E.

PARENT-SPONSOR-HOST AFFILIATION: ESIS, Inc. (An INA Corporation Company)

YEAR INFORMATION SOURCE BEGAN: 1971

MISSION: To provide clients with up-to-date loss control (safety) management training, publications, and consulting.

SUBJECT SCOPE: Industrial safety manuals, codes, specifications, standards; Safety analysis; Laboratories, test facilities and test equipment; Toxicology.

MAJOR SUBJECT TERMS: Toxicity; Physiological hazards; Personnel development; Accidents; Accident prevention; Safety analysis; Safety procedures; Industrial safety; Safety equipment; Vehicles (land); Environments.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research and development activities on a fee basis for private and public clients.

SPECIAL SCOPE FEATURES: Through the Academy's four divisions (Conference Division, Consultative Services Division, Products and Services and Environmental Health Laboratory) a total loss control program is available for private industry and government entities. Areas of specialization are general industry and federal safety programs.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Barenklau, K. E.	Education; Safety Engineering	(912) 746-7677
Holmgren, M. E.	Safety Engineering	(912) 746-7677
Stevenson, G. D.	Materials Handling; Education	(912) 746-7677
Glascok, M. E.	Vehicles (Land); Information Retrieval	(912) 746-7677

STAFF: Full-time - professional 6, nonprofessional 4, total 10; part-time - professional 14, nonprofessional 2, total 16.

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; technical reports; newsletters/trade literature; reference lists/bibliographies.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information; analytical studies; advisory and consulting services; referrals.

OTHER SERVICES: On-site use of collection; courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

JET PROPULSION LAB.

ADDRESS: California Institute of Technology
4800 Oak Grove Drive
Pasadena, CA
91103

TELEPHONE: (213) 354-4321

DIRECTOR: Murray, B.

PARENT-SPONSOR-HOST AFFILIATION: California Institute of Technology; NASA

YEAR INFORMATION SOURCE BEGAN: 1944

MISSION: To conduct space research and exploration for the NASA program and to conduct research for nonspace sponsors mostly in the fields of environmental and Civil Engineering.

SUBJECT SCOPE: Astronomy and astrophysics; Aeronautics; Space technology; Physics; Structural engineering; Navigation and guidance; Propulsion, engines and fuels; Geology and mineralogy; Atmospheric sciences; Civil engineering; Biological and medical science; Safety analysis.

MAJOR SUBJECT TERMS: Safety analysis; Astronomy; Aeronautics; Spacecraft; Earth sciences; Physics; Civil engineering; Structural engineering; Information retrieval; Aerospace engineering.

RESEARCH AND DEVELOPMENT ACTIVITIES: Current research projects are in the fields of planetary exploration, the deep space network, physical sciences, earth and planetary sciences, and Civil Engineering.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Montgomery, L. C.	Safety Engineering	(213) 354-4321

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; films and slides; total number of titles 90,000.

DECEMBER 1975

JOINT INDUSTRIAL COUNCIL (JIC)

ADDRESS: 7901 Westpark Drive
McLean, VA
22101

TELEPHONE: (703) 893-2900

DIRECTOR: Loeffler, E. J.

YEAR INFORMATION SOURCE BEGAN: 1965

MISSION: To promulgate standards for the application of electrical, hydraulic and pneumatic equipment to machine tools and similar industrial equipment.

SUBJECT SCOPE: Machinery, tools and industrial equipment; Hydraulic and pneumatic equipment; (Electrical) components; Industrial safety manuals, codes, specifications, standards, etc..

MAJOR SUBJECT TERMS: Standards; Pneumatic equipment; Hydraulics; Electronics.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Loeffler, E. J.	Standards	(703) 893-2900

INTERNAL PUBLICATIONS: Standards and specifications.

HOLDINGS: Standards and specifications.

DECEMBER 1975

KNOWLEDGE AVAILABILITY SYSTEMS INFORMATION CENTER (KASC)

ADDRESS: NASA Industrial Applications Center
KASC - University of Pittsburgh
710 L.I.S. Building
Pittsburgh, PA
15260

TELEPHONE: (412) 624-5212

DIRECTOR: Howie, E.

PARENT-SPONSOR-HOST AFFILIATION: University of Pittsburgh; NASA

YEAR INFORMATION SOURCE BEGAN: 1964

MISSION: To facilitate the transfer of technology by providing information to the community from both hard and soft science data banks.

SUBJECT SCOPE: Aeronautics; Chemistry; Mathematical sciences; Electronics and electrical engineering; Behavioral and social sciences; Biological and medical sciences; Civil engineering; Physics; Earth sciences and oceanography.

MAJOR SUBJECT TERMS: Information retrieval; Aeronautics; Chemistry; Physics; Aerospace medicine; Mathematics; Earth sciences; Electronics; Instruments; Civil engineering; Mechanical engineering.

RESEARCH AND DEVELOPMENT ACTIVITIES: KASC is closely affiliated with the Graduate School of Library and Information Science at the University of Pittsburgh and benefits from and cooperates with research by the school in information science. Research scientists at NASA Research Centers are available by special arrangements for advice and discussion with KASC industrial clients.

SPECIAL SCOPE FEATURES: Retrospective and current awareness searches may be performed on single files or on all KASC held files which are suitable. A search of more than one file on a given subject is called a Multit-file search. Additional service is given in the form of categorized and analyzed results from many files. The latter service is performed by an appropriate subject specialist and is known as a Project Survey.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext.(x)
Clough, E.	Marketing	(412) 624-5213
Coull, J.	Chemical Engineering	(412) 624-5281
Geiger, G. E.	Mechanical Engineering	(412) 624-5235
Gratton, M. A.	Materials Handling	(412) 624-5306
Lang, L. S.	Chemical Engineering	(412) 624-5214
Lupish, R. P.	Physics; Electronics	(412) 624-5213
Miller, J. P.	Civil Engineering	(412) 624-5363
Pugh, M. J.	Chemistry	(412) 624-5214
Sze, T. W.	Electrical/Electronic Engineering	(412) 624-5418
Trout, H. E.	Materials Handling	(412) 624-5307
Turkes, W. R.	Engineering Management	(412) 624-5262

STAFF: Full-time - professional 9, nonprofessional 8, total 17; part-time - professional 11, nonprofessional 1, total 12.

HOLDINGS: Abstracts/indexes; reference lists/bibliographies.

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KNOWLEDGE AVAILABILITY SYSTEMS INFORMATION CENTER (KASC)

DATA BANK RESOURCES:

Name or	Description of Contents	Range of Years	No. of Records
ACTORVM			
ABI (INFORM)	Business	71-75	14,000
APILIT	Petroleum Literature	64-75	169,000
APIPAT	Petroleum Patents	64-75	86,000
BIOSIS	Biology	72-75	850,000
CAIN-NAL	Agriculture	72-75	120,000
Chemical Abst. Cond.	Chemistry	68-75	2,112,722
CMA-EMA	Chemical and Equipment Marketing	72-75	22,000
E. I. Compendex	Engineering	70-75	285,000
ERIC	Education	66-75	192,000
GEO-REF	Geosciences	67-75	239,000
F & S Indexes	Business-marketing	72-75	450,000
FSTA	Food	72-75	450,000
IFI CLAIMS-CHEM	Chem. patents	50-75	350,000
INSPEC	Physics, electrical engineering, computers-control	69-75	600,000
ISMEC	Mechanical Engineering	73-75	30,000
ISI (SCI)	Life Sciences	74-75	650,000
ITT-MIT	Textiles	66-75	128,583
ISI (SOC)	Social Sciences	72-75	180,000
LIBCON	Library Congress Cataloging	65-75	837,000
MATRIX	Communications, Ecology, Urban Planning	73-75	15,000
METADEx	Metallurgy	66-75	250,000
MEDLINE	Medical	69-75	1,503,071
NASA	Engineering-Life Science, Mgmt.	62-75	745,575
NTIS	Government Reports	64-75	320,000
NYT	News journals, N.Y. Times and others	69-75	1,031,190
P-E NEWS	Petroleum-business	75	500
PREDICASTS	Statistics-Forecasts-History	71-75	90,000
DOMESTIC STATISTICS			
PREDICASTS	Statistics-Forecasts-History	72-75	100,000
INTERNATIONAL STATISTICS			
PSYCH ABST	Psychology-Behavioral Science	67-75	120,905
POLLUTION ABSTR	Pollution-Environment	70-75	35,000
SEAKCH	Chemical Markets	72-75	45,000
SSIE	Research in Progress	74-75	110,000
SCI SEARCH	Life Sciences	72-74	546,000
WAA	Aluminum	68-74	40,000
WTA	Textiles	70-75	46,652

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; state-of-the-art reviews; analytical studies.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy; microfiche copy.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

LEAK, JOHN S., CONSULTANTS

ADDRESS: 3744 Valencia Avenue
San Bernardino, CA
92404

TELEPHONE: (714) 883-0773

DIRECTOR: Leak, J. S.

YEAR INFORMATION SOURCE BEGAN: 1974

MISSION: To lend technical expertise on a contractual or consulting basis in all aspects of flight and flight safety, including ground, explosives, life sciences, and systems safety engineering.

SUBJECT SCOPE: Safety analysis; Aeronautics; Aircraft flight instrumentation; Aircraft; Air facilities.

MAJOR SUBJECT TERMS: Accidents; Accident investigation; Flight instruments; Aircraft safety; Airports; Landing aids; Air traffic control; Aircraft problems; Aeronautics; Civil aviation; Aerospace engineering.

RESEARCH AND DEVELOPMENT ACTIVITIES: Consulting services in the areas of aircraft accident analysis, system safety and materials reliability.

SPECIAL SCOPE FEATURES: To facilitate the extraction of accident data and statistics the following programs are available: 1) Self Generating Multiple Search Programs which retrieve data bank information under selective parameters established by the user; 2) Analytic Table Program which produces a matrix showing numbers of incidents common to two selected parameters; 3) Calculate Injury Programs which tabulate injuries received by aircraft occupants and non-occupants; and 4) Accident data printouts for any selection criteria.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Leak, J. S.	Aircraft Safety	(714) 883-0773

INTERNAL PUBLICATIONS: Technical reports; periodicals/journals; conference papers.

DATA BANK RESOURCES:

Name or ACRONYM	Description of Contents	Range of Years	No. of Records
NTSB Data Files	Probable cause and related information on all civil aircraft accidents and incidents	1964 to present	all civil accidents

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation (based on NTSB data bank).

OTHER SERVICES: Courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community; government employees; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

LIGHTNING AND PRECIPITATION STATIC TEST LABORATORY (NAVAIRSYS COM)

ADDRESS: Systems Engineering Test Directorate
 Naval Air Test Center
 Naval Air Station, Patuxent River, MD
 20670

DIRECTOR: Campbell, H., Capt.

PARENT-SPONSOR-HOST AFFILIATION: Naval Air Systems Command

YEAR INFORMATION SOURCE BEGAN: 1970

MISSION: To support Naval Air Systems Command by providing a test and evaluation laboratory capable of evaluating lightning and p-static effects on Naval aircraft; to identify problem areas and initiate protection programs both in-house and on contract in these problem areas; to author and compile reports of test results relating to lightning and p-static effects on aircraft.

SUBJECT SCOPE: Mechanics of structural failure; Man-machine hazards; Structural materials limitations (metallic and nonmetallic); Propellants, fuels, lubricants, hydraulic fluid safety; Fire, explosion and detonations; Dangerous materials; Industrial safety manuals, codes, specifications, standards, etc.; Safety analysis.

MAJOR SUBJECT TERMS: Lightning; Aircraft safety; Materials; Shielding; Fuels; Safety analysis; Safety regulations.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performs safety and mission related projects at NATC and on contract to protect aircraft from the direct and indirect effects of lightning and p-static.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Walker, W. T.	Lightning	(301) 863-4811
Lane, R. F.	Electromagnetism	(301) 863-4811

STAFF: Full-time - professional 2, nonprofessional 2, total 4; part-time - professional 4, nonprofessional 3, total 7.

INTERNAL PUBLICATIONS: Technical reports.

HOLDINGS: Reports and reprints; standards and specifications; total number of titles 400.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; referrals.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy available from command.

USER QUALIFICATIONS: General technology community; government employees; government contractors.

USER RESTRICTIONS: Federal security clearance.

PRICING AND SERVICES CHARGES: Charge for non-government users.

DECEMBER 1975

LIGHTNING AND TRANSIENTS RESEARCH INST. (LTRI)

ADDRESS: 2531 W. Summer Street
St. Paul, MN
55113

TELEPHONE: (612) 631-1221

DIRECTOR: Robb, J. D.

YEAR INFORMATION SOURCE BEGAN: 1946

MISSION: Safety of aircraft from atmospheric electricity. Transient effects on electrical electronic systems.

SUBJECT SCOPE: Safety analysis; Aircraft problems; Safety engineering; Electricity and magnetism; Electronic and electrical engineering.

MAJOR SUBJECT TERMS: Electricity; Safety engineering; Safety analysis; Instruments; Lightning; Aircraft safety.

RESEARCH AND DEVELOPMENT ACTIVITIES: Research on lightning and static electrification effects on aerospace vehicles, electronic systems and power transmission systems.

SPECIAL SCOPE FEATURES: Areas of special interest include lightning hazards protection and static electrification into aerospace vehicles (fuel systems, electrical-avionic systems, structures, personnel); lightning protection for power and electronics systems; triggering of natural lightning.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Robb, J. D.	Aerospace Engineering	(612) 631-1221
Chen, T.	Shock Waves; Electronics	(612) 631-1221
Newman, M.	Lightning	(612) 631-1221
Gerriman, J. H.	Power Supplies	(612) 631-1221

STAFF: Full-time - professional 4, nonprofessional 3, total 7; part-time - professional 0, nonprofessional 3, total 3.

INTERNAL PUBLICATIONS: Technical reports; conference papers.

HOLDINGS: Reports and reprints; total number of titles.

REFERENCE AND QUERY SERVICES: Questions answered individually; referrals.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Not available.

USER QUALIFICATIONS: General technology community; staff or members of affiliated organizations.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

LOCKHEED RADIATION PHYSICS GROUP

ADDRESS: Palo Alto Research Laboratories
3251 Hanover Street
Palo Alto, CA
94304

TELEPHONE: (415) 493-4411

DIRECTOR: Kumer, J. B.

PARENT-SPONSOR-HOST AFFILIATION: Lockheed Palo Alto Research Laboratory

YEAR INFORMATION SOURCE BEGAN: 1966

MISSION: To gather and analyze H alpha and Helium data pertaining to active solar atmosphere regions; to study interaction with earth atmosphere.

SUBJECT SCOPE: Atmospheric physics; Extraterrestrial environmental hazards.

MAJOR SUBJECT TERMS: Atmospheres; Extraterrestrial environments; Solar radiation; Radiation; Thermal radiation; Radiation belts; Air.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Kumer, J. B.	Atmospheres; Physics	(415) 493-4411 ext 45332
Kulander, J. L.	Physics	(415) 493-4411 ext 45241
Schoolman, S. A.	Solar Radiation; Information Retrieval	(415) 493-4411 ext 45262

INTERNAL PUBLICATIONS: Indexes; technical reports; statistical compilations.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually.

USER QUALIFICATIONS: Ad hoc permission.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

LOS ALAMOS SCIENTIFIC LABORATORY, CRYOGENIC ENGINEERING SECTION (LASL)

ADDRESS: Los Alamos Scientific Laboratory
MS764
P.O. Box 1663
Los Alamos,
87545

TELEPHONE: (505) 667-4838

DIRECTOR: Keller, W. E., Q-26 group leader

PARENT-SPONSOR-HOST AFFILIATION: University of California, Los Alamos

YEAR INFORMATION SOURCE BEGAN: 1943

MISSION: The Cryogenic Engineering Section is engaged in developing advanced systems in support of other LASL programs: basic research in low-temperature physics, cryogenic engineering, and applied superconductivity as well as the determination of engineering properties of materials at low temperatures.

SUBJECT SCOPE: Cryogenic safety; Space vehicle problems; Propellants, fuels, lubricants, hydraulic fluids safety; Power sources; Materials; Laboratories, test facilities and test equipment; Nuclear science and technology; Physics; Thermodynamics; Particle physics; Plasma physics; Masers and lasers; Fluid mechanics.

MAJOR SUBJECT TERMS: Physics; Fluid mechanics; Physical properties; Cryogenic fluid safety; Liquified gases; Hydrogen; Thermodynamics; Nuclear physics; Nuclear energy; Spacecraft; Energy; Fuels; Electricity; Power supplies; Superconductors.

RESEARCH AND DEVELOPMENT ACTIVITIES: Cryogenic target development for accelerated particle experiments, solid hydrogen target development for laser applications, heat transport in cryogenic fluids under conditions of zero gravity, the role of liquid hydrogen in a possible future economy based on hydrogen as a portable fuel, and the large scale applications of superconductivity.

SPECIAL SCOPE FEATURES: The Section's capabilities include sophisticated refrigeration systems, gas-handling systems, cryopumping systems, and various diagnostic systems as required.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Keller, W. E.	Superconductors	(505) 667-4838
Bdeskuty, F. J.	Liquid Hydrogen	(505) 667-4240

STAFF: Full-time - professional 11, nonprofessional 20, total 31; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Technical reports; periodicals/journals; conference papers; reference lists/bibliographies.

REFERENCE AND QUERY SERVICES: Questions answered individually; referrals.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: Immediate staff or members; government contractors.

USER RESTRICTIONS: Federal security clearance.

PRICING AND SERVICES CHARGES: Charge for user outside organization

DECEMBER 1975

MANUFACTURING CHEMISTS ASSOCIATION, INC., INFORMATION SERVICES (MCA)

ADDRESS: 1825 Connecticut Avenue, N.W.
Washington, DC
20009

TELEPHONE: (202) 483-6126

DIRECTOR: Carnes, J. R.

YEAR INFORMATION SOURCE BEGAN: 1872

MISSION: Through its four operating Committees - Technical Government Relations, Public Relations and Information Services, the association seeks to promote safe and clean practices in the manufacture, transportation, handling and use of chemicals and chemical products, and to collect and disseminate published statistics and other data concerning the chemical industry. It also provides immediate advice for those at the scene of transportation emergencies involving chemicals through its Chemical Transportation Emergency Center (CHEMTREC).

SUBJECT SCOPE: Industrial safety manuals, codes, specifications; Dangerous materials; Chemistry; Industrial processes.

MAJOR SUBJECT TERMS: Safety regulations; Safety procedures; Industrial safety; Chemistry; Chemical properties; Chemical engineering; Chemical hazards; Toxicity; Shipping regulations; Environments; Fire hazards; Fire prevention; Accident prevention; Physiological hazards; Vehicles (land).

RESEARCH AND DEVELOPMENT ACTIVITIES: The development of new and specialized containers, equipment, handling methods, and procedures for the safe transporting of chemical products.

SPECIAL SCOPE FEATURES: MCA is able to provide expertise in the following areas related to the chemical industry: occupational health, transportation and packaging, chemical plant equipment, plastics and education.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Campbell, M. V.	Information Retrieval	(202) 483-6126
Brown, H.	Water Resources	(202) 483-6126
Watts, S.	Transportation	(202) 483-6126
Zercher, J.	Information Retrieval	(800) 424-9300

STAFF: Full-time - professional 32, nonprofessional 41, total 73; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Book catalogs; handbooks/manuals; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; reference lists/bibliographies; standards and specifications.

HOLDINGS: Abstracts/indexes; reports and reprints; reference lists/bibliographies; standards and specifications; graphics, tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; reproduction/publication services; courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community; immediate staff or members.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

MASSACHUSETTS INST. OF TECHNOLOGY, DEPARTMENT OF MECHANICAL ENGINEERING (MIT)

ADDRESS: Massachusetts Institute of Technology
Sloan Laboratory
Building 31
Cambridge, MA
02139

TELEPHONE: (617) 253-3358

DIRECTOR: Richardson, H. H.

YEAR INFORMATION SOURCE BEGAN: 1865

MISSION: The Department of Mechanical Engineering is devoted to education and research in the following fields: Mechanics, Fibers and Polymers, Textiles, Tribology, Acoustics and Vibrations, Heat and Mass Transfer, Power and Energy, Biomedical and Environmental Engineering, Design, Dynamics and Controls, and Transportation.

SUBJECT SCOPE: Fibers and textiles; Acoustics; Chemistry; Wave propagation; Fire, explosion and detonations; Cryogenic safety.

MAJOR SUBJECT TERMS: Textiles; Acoustics; Fire prevention; Fire protection; Fire fighting; Combustion; Liquified gases; Cryogenic fluid safety; Air pollution.

RESEARCH AND DEVELOPMENT ACTIVITIES: Ongoing research projects include: Physical and Chemical Kinetic Models of Flame Propagation and Inhibition, Smoldering Combustion and the Transition to Flaming or Extinguishment, Safety Hazards of LNG Spills, and Aircraft Air Pollution.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Toong, T. Y.	Fires	(617) 253-3358
Smith, P.	Cryogenic Fluid Safety	(617) 253-4465
Garris, G. A.	Acoustics	(617) 253-2432
Appleton, J. P.	Flame Propagation; Fire Suppression	(617) 253-2295
Flagan, A. C.	Flame Propagation; Fire Suppression	(617) 253-4322
Fay, J. A.	Liquified Gases; Cryogenic Fluid Safety	(617) 253-2236
Heywood, J. B.	Air Pollution	(617) 253-2243

STAFF: Full-time - professional 50, nonprofessional 100, total 150; part-time - professional 1, nonprofessional 0, total 1.

INTERNAL PUBLICATIONS: Periodicals/journals; conference papers.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services; referrals.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy if not proprietary.

USER QUALIFICATIONS: General technology community; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

ORIGINAL PAGE IS
OF POOR QUALITY

MCDONNELL AIRCRAFT CO., LIGHTNING SIMULATION LABORATORY

ADDRESS: McDonnell Aircraft Company
P.O. Box 516
St. Louis, MO
63044

TELEPHONE: (314) 232-5758

DIRECTOR: Clifford, D. W.

YEAR INFORMATION SOURCE BEGAN: 1967

MISSION: To provide aircraft designers with the test capability needed to evaluate the susceptibility of aircraft hardware to lightning damage.

SUBJECT SCOPE: Fire, explosion and detonations; Combustion and ignition; Fuels; Aircraft problems.

MAJOR SUBJECT TERMS: Lightning; Combustion; Aircraft safety.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performs continual evaluation of lightning simulation techniques and equipment in relation to newly acquired knowledge of the natural environment. Performs development of new simulation equipment and techniques.

SPECIAL SCOPE FEATURES: High voltage simulation to 5 million volts for the evaluation of lightning attachment behavior models and full scale components or aircraft and for the evaluation of dielectric structures and materials. High peak current simulation to 200,000 amperes for damage assessment of structures and components and full scale aircraft. High coulomb simulation for damage assessment related to continuing current lightning components. Windblown swept-stroke testing using wind speeds to 300 knots for evaluation of swept lightning stroke effects, including dynamic restrike simulation. High voltage DC simulation to 400 kilovolts for field effects studies and dielectric systems evaluation. Facility is equipped with a full complement of photographic equipment.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Clifford, D. W.	Lightning; Tests	(314) 232-5033
Schulte, E. H.	Lightning; Tests	(314) 232-5758

STAFF: Full-time - professional 4, nonprofessional 8, total 12; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Technical reports; conference papers.

HOLDINGS: Books; reports and reprints; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; advisory and consulting services.

OTHER SERVICES: On-site use of collection; conferences/symposiums; seminars.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy (reprints).

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

METALS PROPERTIES COUNCIL, INC. (MPC)

ADDRESS: 345 East 47th Street
New York, NY
10017

TELEPHONE: (212) 644-7693

DIRECTOR: Schaefer, A. O.

YEAR INFORMATION SOURCE BEGAN: 1966

MISSION: To identify major unfulfilled needs for reliable data on the engineering properties of metals and alloys; to evolve, plan, and conduct programs for collecting, generating and evaluating such data so it may be useful; to arrange for making such data available promptly by reports, publications, correspondence or other means; to keep informed of and to utilize the results of related activities, both national and international, in order to avoid duplication of effort; and, to act as co-sponsor, with the American Society of Mechanical Engineers and the American Society of Testing and Materials, of the Joint Committee on Effect of Temperature on the Properties of Metals, and to raise funds for financing the activities of the Joint Committee.

SUBJECT SCOPE: Metals; Composite materials; Structural engineering; Mechanics of structural failure; Structural materials limitations (metallic and nonmetallic); Corrosion and degradation.

MAJOR SUBJECT TERMS: Materials; Molybdenum; Metallurgy; Mechanical engineering; Reactor safety; Liquified gases; Materials tests; Fatigue (materials); Corrosion; Mechanical properties.

RESEARCH AND DEVELOPMENT ACTIVITIES: Current projects include: effects of temperature and stress on carbon and alloy steel; temper embrittlement in chromium molybdenum steels; development of tests of creep-fatigue interaction; surveillance testing of nuclear reactors as a check on the effects of irradiation; developing critical property data of zircaloy tubing in nuclear reactors; stress-corrosion data on materials for propellers for super-tankers; and fracture toughness of heavy commercial steel plates used in the construction of storage tanks.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Schaefer, A. O.	Materials; Metallurgy	(212) 644-7693

INTERNAL PUBLICATIONS: Technical reports; newsletters/trade literature; reference lists/bibliographies.

DECEMBER 1975

NATIONAL BUREAU OF STANDARDS, CENTER FOR FIRE RESEARCH

ADDRESS: Building 225, B-142
Washington, DC
20234

TELEPHONE: (301) 921-3143

DIRECTOR: Lyons, J. W.

YEAR INFORMATION SOURCE BEGAN: 1974

MISSION: To insure the development of a technical base needed in support of the national goal to reduce fire losses by 50 percent in the next generation.

SUBJECT SCOPE: Combustion and ignition; Fire, explosion and detonations; Physics; Chemistry; Toxicology; Stress physiology; Industrial safety manuals, codes, specifications, standards, etc.; Fibers and textiles.

MAJOR SUBJECT TERMS: Chemistry; Combustion; Compressed gas; Consumer protection; Fluid mechanics; Fire hazards; Fire protection; Fire prevention; Fires; Toxicity; Physics; Tests; Standards; Structural materials; Safety engineering; Physiological hazards; Hazardous materials.

RESEARCH AND DEVELOPMENT ACTIVITIES: Carries out research on the fundamental aspects of fires, develops fire safety test methods for use by government agencies and as proposed standards for voluntary standards groups; provides expert advice to model building code groups and regulatory agencies.

SPECIAL SCOPE FEATURES: New test methods concepts for consumer products, particularly finishings and apparel; test methods for building materials; full scale fire testing capabilities, permitting furnished rooms and similar structural interiors to be instrumented and studied during controlled fire conditions. The Center maintains an active program, largely on grants and contracts, on combustion product toxicology. This includes expertise in analytical chemistry of combustion products, as well as supporting laboratory studies on the toxicology of these products. Research is also being carried out on flame intermediates, using a laser diagnostic approach, and on the fluid dynamics surrounding room fires, using a variety of chemical and numerical modeling methods.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Birky, M.	Combustion; Toxicity	(301) 921-3834
Buchbinder, B.	Fire Hazards	(301) 921-3246
Rockett, J.	Fires; Physics	(301) 921-3242
Huggett, C.	Chemistry; Fires	(301) 921-3771
Winger, J.	Fire Prevention	(301) 921-3116
Gross, D.	Fire Prevention; Construction	(301) 921-3461
Davis, S.	Fire Resistant Materials	(301) 921-3744
Custer, R.	Fire Protection; Detectors	(301) 921-3387
Nelson, H.	Fires	(301) 921-3175
Baum, H.	Fluid Mechanics	(301) 921-3242
Robertson, A.	Fire Hazards; Tests	(301) 921-3143
Rowen, J.	Safety Analysis	(301) 921-3143
Clarke, F.	Telecommunications	(301) 921-3143
Benjamin, I.	Fires; Standards	(301) 921-3255
Levine, R.	Combustion; Engineering	(301) 921-3845
Lyons, J.	Fire Resistant Materials	(301) 921-3143
Parker, W.	Fires; Tests	(301) 921-3461
Levin, B.	Fires	(301) 921-3143
Jason, N.	Information Retrieval	(301) 921-3245

STAFF: Full-time - professional 140, nonprofessional 0, total 140; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Technical reports; periodicals/journals; reference lists/bibliographies; magnetic tape bibliographic data; NBS internal reports; NBS technical notes.

HOLDINGS: Books 300; abstracts/indexes; reports and reprints 12,000; periodicals; standards and specifications.

NATIONAL BUREAU OF STANDARDS, CENTER FOR FIRE RESEARCH

DATA BANK RESOURCES:

Name or Acronym	Description of Contents	Range of Years	No. of Records
AIM-AEM	Education	1971	15,000
ASI	Federal statistics	1974	
CAIN	Agriculture	1970	675,000
CHEMCON	Chemistry	1968	1,000,000
CIS INDEX	Congressional information	1970	4,500
COMPENDIX	Engineering	1970	400,000
EFIC	Education	1966	220,000
GEO-REF	Geology	1967	200,000
IDC-LIBCON	Catalogs of Library of Congress	1965	1,200,000
INFORM	Management and administration	1971	25,000
INSPEC	Computers, physics, electronics	1969	700,000
MEDLINE	Medicine	1970	500,000
NTIS	Government reports	1964	475,000
POLLUTION	Pollution control and research	1970	335,000
PSYCHOLOGY	Psychology	1967	150,000
ABSTRACTS SSIE	All areas of science	1973	

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; interlibrary loans; reproduction/publication services.

USER QUALIFICATIONS: General technology community; government employees; government contractors.

USER RESTRICTIONS: None; federal security clearance (classified material).

PRICING AND SERVICES CHARGES: All services free to qualified users.

DECEMBER 1975

NATIONAL BUREAU OF STANDARDS, FIRE RESEARCH INFORMATION SERVICES (FRIS)

ADDRESS: National Bureau of Standards
Bldg. 225, Rm. A 46
Washington, DC
20234

TELEPHONE: (301) 921-3246

DIRECTOR: Jason, N. H.

YEAR INFORMATION SOURCE BEGAN: 1971

MISSION: To operate an information service in the subject area of fire research for, and to provide technical information service to, the Center for Fire Research Staff (National Bureau of Standards) and to other users of fire information.

SUBJECT SCOPE: Aircraft problems; Space vehicle problems; Fire, explosion and detonations; Industrial safety manuals, codes, specifications, standards; Dangerous materials; Plastics; Fibers and textiles; Toxicology.

MAJOR SUBJECT TERMS: Fire prevention; Fire resistant materials; Fires; Fire hazards; Fire fighting equipment; Spacecraft; Combustion; Detectors; Warning systems; Textiles; Plastics; Materials tests; Hazardous materials; Transportation; Toxicity; Protective equipment; Aircraft safety; Fabrication; Structural materials; Fire extinguishing agents.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Jason, N. H.	Information Retrieval; Fires	(301) 921-3246

STAFF: Full-time - professional 1, nonprofessional 2, total 3; part-time - professional 1, nonprofessional 0, total 1.

INTERNAL PUBLICATIONS: Technical reports; newsletters/trade literature.

HOLDINGS: Books; reports and reprints; periodicals; reference lists/bibliographies; films and slides; total number of titles 12,000; range of years of total 1945-present.

REFERENCE AND QUERY SERVICES: Questions answered individually; referrals.

OTHER SERVICES: On-site use of collection; interlibrary loans.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Not available.

USER QUALIFICATIONS: General technology community; government employees; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: All services free to qualified users.

DECEMBER 1975

NATIONAL BUREAU OF STANDARDS, MECHANICAL PROPERTIES SECTION

ADDRESS: National Bureau of Standards
Metallurgy Division
Mechanical Properties Section
Washington, DC
20234

TELEPHONE: (301) 921-2951

DIRECTOR: Christ, B. W.

YEAR INFORMATION SOURCE BEGAN: 1913

MISSION: Conducts basic and applied research on metals and metallurgical phenomena of technological importance. Operates facilities and provides services for (1) optical metallography, (2) the determination of mechanical properties, (3) forming and heat treatment of specimens. Cooperates with other Government agencies in the investigation of service failures and provides other agencies with consultation and advisory service in metallurgical matters.

SUBJECT SCOPE: Structural materials limitations (metallic and nonmetallic); Metals; Corrosion and degradation; Coatings, colorants and finishes.

MAJOR SUBJECT TERMS: Accident investigation; Structural failure; Failure; Explosions; Materials; Magnetic properties; X-rays; Metallurgy; Mechanical properties; Corrosion.

RESEARCH AND DEVELOPMENT ACTIVITIES: Current research includes: development of a test methodology for hydrogen embrittlement studies on intermediate strength steels; development of equipment which will permit uniaxial tensile testing at constant true strain rate; and development of a standard austenite reference material intended for the calibration of X-ray equipment used to determine austenite levels in steels.

SPECIAL SCOPE FEATURES: Section expertise is also available in failure avoidance study and failure analysis.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Early, J. G.	Metallurgy; Mechanical Engineering	(301) 921-2934
Christ, B. W.	Plasticity	(301) 921-2951
Dewit, R.	Mechanical Properties	(301) 921-2977
Interrante, C. G.	Failure Analysis	(301) 921-2997
Simmons, J. A.	Mechanical Properties	(301) 921-3355
Smith, J. H.	Fracture Mechanics	(301) 921-2945
Kruger, J.	Failure Analysis	(301) 921-2094
Bertocci, U.	Failure Analysis	(301) 921-3619
Melmed, A. J.	Failure Analysis	(301) 921-2998
Iverson, W. P.	Pollution	(301) 921-2953
Arpese, J. R.	Failure Analysis	(301) 921-2191

STAFF: Full-time - professional 15, nonprofessional 1, total 16; part-time - professional 1, nonprofessional 0, total 1.

INTERNAL PUBLICATIONS: Technical reports; periodicals/journals; conference papers; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information; advisory and consulting services.

OTHER SERVICES: Conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: Government employees; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

ORIGINAL PAGE IS
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NATIONAL CARGO BUREAU, INC. (NCB)

ADDRESS: 1 World Trade Center
Suite 2757
New York, NY
10048

TELEPHONE: (212) 432-1280

DIRECTOR: Sammis, Capt. S. F.

YEAR INFORMATION SOURCE BEGAN: 1952

MISSION: NCB Inc. is dedicated to the safe loading, storage, securing and unloading of cargo on all vessels and the safety of shipboard cargo handling gear through the application of uniform standards. Certificates issued by NCB may be accepted as prima facie evidence of compliance with the provisions of the Dangerous Cargo Act and the Rules and Regulations for Bulk Grain Cargo.

SUBJECT SCOPE: Dangerous materials; Containers and packaging.

MAJOR SUBJECT TERMS: Safety regulations; Hazardous materials; Shipping regulations; Cargo.

RESEARCH AND DEVELOPMENT ACTIVITIES: Active participation in the Inter-Governmental Maritime Consultative Organization serving on the Sub-Committee on the Carriage of Dangerous Goods; the Sub-Committee on Containers and Cargoes; the IMCO Code of Safe Practice for Bulk Cargoes such as ores and ore concentrates and similar cargo when carried in general cargo vessels; serves on the Technical and Research Committees of the Marine Section of the National Safety Council.

SPECIAL SCOPE FEATURES: The development of standards and specifications for the safe stowing and shipping of various types of cargoes. Consulting and advisory services also available for passenger, cargo, tank derrick barge and miscellaneous vessels.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Wilson, Capt. G. A.	Cargo; Shipping Regulations	(804) 622-2393
Dobson, Capt. R. C.	Cargo; Shipping Regulations	(504) 522-8400
Farnsworth, Capt. W. L.	Cargo; Shipping Regulations	(713) 224-5496
Currie, Capt. A. B.	Cargo; Shipping Regulations	(415) 982-0795
Miles, Capt. F. B.	Cargo; Shipping Regulations	(312) 646-2131

STAFF: Full-time - professional 5, nonprofessional 12, total 17; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; standards and specifications.

HOLDINGS: Reports and reprints; reference lists/bibliographies; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information; analytical studies; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

NATIONAL CENTER FOR HEALTH STATISTICS (NCHS)

ADDRESS: Health Resources Administration
 US Public Health Service
 5600 Fishers Lane
 Rockville, MD
 20852

TELEPHONE: (301) 443-1200

DIRECTOR: Margulies, H.

PARENT-SPONSOR-HOST AFFILIATION: Health Resources Administration, Public Health Service

YEAR INFORMATION SOURCE BEGAN: 1960

MISSION: To collect, analyze, and disseminate general purpose, vital, and health statistics and to develop health, demographic, and related statistics to serve present and future needs of all segments of health and related professions.

SUBJECT SCOPE: Physiology; Mathematics and Statistics; Dangerous materials.

MAJOR SUBJECT TERMS: Consumer protection; Information retrieval; Physiology; Hazardous materials; Combustion; Medicine; Statistics.

RESEARCH AND DEVELOPMENT ACTIVITIES: Development and design of a publication which would function as an index to health topics covered in the Vital and Health Statistics Series in which data is presented according to demographic and socioeconomic variables.

SPECIAL SCOPE FEATURES: A professional staff, including statisticians, mathematical statisticians, physicians, dentists, demographers and sociologists, collects, analyzes and disseminates vital and health data in such areas as natality, mortality, marriage and divorce, morbidity, disability, and use of health services.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Zugzda, M.	Statistics; Medicine	(301) 443-1616

STAFF: Full-time - professional 500, nonprofessional 0, total 500; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Technical reports; statistical compilations; reference lists/bibliographies; graphics/tabular materials; magnetic tape bibliographic data.

HOLDINGS: Reports and reprints; standards and specifications; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information; state-of-the-art reviews; advisory and consulting services; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Not available.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

NATIONAL FOREST PRODUCTS ASSOCIATION (NFPA)

ADDRESS: 1619 Massachusetts Avenue, NW
Washington, DC
20036

TELEPHONE: (202) 332-1050

DIRECTOR: Hodges, R. D.

YEAR INFORMATION SOURCE BEGAN: 1902

MISSION: NFPA is the representative of the forest industries on national issues concerning the growing, manufacture and use of solid wood products.

SUBJECT SCOPE: Industrial safety codes, specifications, standards, etc.; Structural materials limitations (metallic and nonmetallic); Construction equipment, materials and supplies; Wood products; Structural engineering.

MAJOR SUBJECT TERMS: Structural materials; Standards; Stress analysis; Fires; Structural engineering; Fire hazards; Fire prevention; Forest fires; Fire insurance.

SPECIAL SCOPE FEATURES: NFPA performs the following services: 1. Generates and supports legislation and programs to promote a continuing flow of both public and private timber to wood using industries; 2. Generates and supports legislation and programs to protect the timber base from excessive withdrawals for non-timber use; 3. Works with government agencies to formulate, monitor, and administer public and private forest programs; 4. Encourages government supported research to expand wood product markets, lower production costs and increase the volume and quality of timber available to meet the nation's wood fiber needs; 5. Evaluates and interprets pending legislation and events affecting the industry; 6. Arranges for forest industry spokesmen to testify on hearings affecting the industry; 7. Communicates industry policy on important legislation, programs and regulations to Congressmen, Congressional Committees, the White House and Executive Departments; 8. Works with model, state, county and local building code officials and with fire insurance officials to insure fair treatment in building regulations and fire insurance. 9. Provides technical assistance to Federal agencies in preparing, revising and reviewing government specifications and standards for wood products used in Federal construction programs; 10. Develops engineering and technical data for building code and fire insurance activities; 11. Sponsors the Wood Industry Careers Program to attract qualified young people to the wood industry; 12. Develops information programs aimed at Congress, the Administration and Executive Departments; 13. Participates in and helps lead the Forest Industries Council.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Hewett, F.	Information Retrieval	(202) 332-1050
Prange, G.	Information Retrieval	(202) 332-1050
Buchan, R.	Standards; Construction	(202) 332-1050
Hitchings, W.	Standards	(202) 332-1050
Holcombe, P.	Wood	(202) 332-1050
Purcell, F.	Fire Insurance	(202) 332-1050
King	Information Retrieval	(202) 332-1051

INTERNAL PUBLICATIONS: Technical reports; newsletters/trade literature; standards and specifications.

HOLDINGS: Standards and specifications.

DECEMBER 1975

NATIONAL GEOPHYSICAL AND SOLAR-TERRESTRIAL DATA CENTER (NGSDC)

ADDRESS: National Oceanic and Atmospheric Administration
Boulder, CO
80302

TELEPHONE: (303)499-1000 ext 6215

DIRECTOR: Shapley, A. H.

PARENT-SPONSOR-HOST AFFILIATION: National Oceanic and Atmospheric Administration

YEAR INFORMATION SOURCE BEGAN: 1957

MISSION: To conduct international exchange of geophysical and solar-terrestrial observations in accordance with the principles set forth by the International Council of Scientific Unions.

SUBJECT SCOPE: Earth sciences and oceanography; Extraterrestrial environmental hazards; Wave propagation.

MAJOR SUBJECT TERMS: Earth sciences; Cosmic rays; Electromagnetic radiation; Electromagnetic interference; Extraterrestrial environments; Environments.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext.(x)
Shapley, A. H.	Aerospace Engineering	(303)499-1000 ext 6215
Lincoln, J. V.	Astronomy	(303)499-1000 ext 6323
Meyers, H.	Earth Sciences	(303)499-1000 ext 6521

STAFF: Full-time - professional 34, nonprofessional 35, total 69; part-time - professional 3, nonprofessional 35, total 38.

INTERNAL PUBLICATIONS: Handbooks/manuals; indexes; technical reports; statistical compilations; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints 20,000; graphics/tables 5,000,000; statistical compilations 50; films and slides; range of years of total 1957-present.

DATA BANK RESOURCES:

Name or Acronym	Description of Contents	Range of Years	No. of Records
SFR	Solar Flare Reports	1884-	
ID	Ionosphere Data	1957-	
CRMS	Cosmic Ray M.S.	1969-1971	
GI (LEN)	Geomagnetic Indices (Lenhart)	1932-	
GI	Geomagnetic Indices (AE, DST, HV)	1901-	
SSPb	Sun Spot Flux Reports	1969-	
MSL	Master Sta List (WDC-A)		1,000
CAT	Catalog (WDC-A)		4,000

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; reproduction/publication services.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy; microfilm copy; microfiche copy.

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations; government employees; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services for reproduction of data.

DECEMBER 1975

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NATIONAL HIGHWAY TRAFFIC SAFETY ADMIN., TECHNICAL REFERENCE BRANCH (TRB-NHTSA)

ADDRESS: Technical Reference Branch
400 Seventh Street, SW
Washington, DC
20590

TELEPHONE: (202) 426-2768

DIRECTOR: Desmond, Winifred F.

YEAR INFORMATION SOURCE BEGAN: 1967

MISSION: To serve as an access point for reports generated by NHTSA and related documents.

SUBJECT SCOPE: Safety analysis; Human factors engineering safety.

MAJOR SUBJECT TERMS: Highway safety; Transportation; Vehicles (land); Accident investigation; Accidents; Safety analysis; Safety regulations; Standards; Safety procedures.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Desmond, W. F.	Highway Safety	(202) 426-2768

STAFF: Full-time - professional 11, nonprofessional 7, total 18; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Book catalogs; handbooks/manuals; indexes; technical reports; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides; total number of titles 30,000.

DATA BANK RESOURCES:

Name or Acronym	Description of Contents	Range of Years	No. of Records
Highway safety literature (HSL)	Citations and Abstracts	1967-	17,000
Transportation Research Information Service (TRIS)	Citations and Abstracts	Various	
Lockheed Dialog	Citations and Abstracts	Various	

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; advisory and consulting services; referrals; bibliographic abstracts.

OTHER SERVICES: On-site use of collection; interlibrary loans.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy; microfiche copy.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

NATIONAL INST. OF OCCUPATIONAL SAFETY AND HEALTH, TOXICOLOGY BRANCH

ADDRESS: National Institute of Occupational Safety and Health
Toxicology Branch, USPHS
1014 Broadway
Cincinnati, OH
45202

TELEPHONE: (513) 684-3544

DIRECTOR: Scheel, L. D.

MISSION: To investigate the effects on humans of hazards and toxic materials found in industry.

SUBJECT SCOPE: Toxicology; Dangerous materials; Hygiene and sanitation; Biology.

MAJOR SUBJECT TERMS: Toxicity; Hazardous materials; Industrial hygiene; Industrial safety; Physiological hazards.

RESEARCH AND DEVELOPMENT ACTIVITIES: Projects are conducted on studying the toxic effects on humans of materials and wastes found in industry.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Scheel, L. D.	Toxicity	(513) 684-3544

HOLDINGS: Reports and reprints.

DECEMBER 1975

NATIONAL OCEANOGRAPHIC DATA CENTER (NODC)

ADDRESS: 2001 Wisconsin Avenue N.W.
Washington, DC
20235

TELEPHONE: (202) 634-7510

DIRECTOR: Ochinero, R. V.

PARENT-SPONSOR-HOST AFFILIATION: National Oceanic and Atmospheric Administration

YEAR INFORMATION SOURCE BEGAN: 1961

MISSION: To acquire, process, exchange, store, and retrieve globally-oriented physical, chemical, and biological data and information related to oceanography, and to serve as a central depository for the nation's oceanographic data.

SUBJECT SCOPE: Extraterrestrial environmental hazards; Earth sciences and oceanography; Biology; Environmental biology; Radiobiology; Toxicology.

MAJOR SUBJECT TERMS: Oceanography; Life sciences; Earth sciences; Oxygen; Information retrieval; Extraterrestrial environments; Meteorology.

SPECIAL SCOPE FEATURES: Extensive services of a complete oceanographic data center.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Kuhr, R.	Physics; Chemistry	(202) 634-7217
Lewis, M.	Oceanography	(202) 634-7214
Collins, E.	Life Sciences	(202) 634-7215
Cooperman, A.	Meteorology	(202) 634-7394

STAFF: Full-time - professional 80, nonprofessional 32, total 112; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; indexes; technical reports; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides; total number of titles 40,000.

DATA BANK RESOURCES:

Name or Acronym	Description of Contents	Range of Years	No. of Records
Oceanographic Station Data (SD) File	Nansen casts	1893-	549,793
Mechanical Bathythermograph Data File (MBT)	Bathythermograph Data	1941-	782,204
Expendable Bathythermograph Data File (XBT)	Bathythermograph Data	1962-	159,182
Surface Current Data Files (H1-9)	Surface Currents	1904-45	1,934,000
Netherlands 193 Environmental Data Index (ENDEX)	Surface Currents	1853-1931	1,260,293
Oceanic & Atmospheric Information Service (OASIS)	Environmental Data Base Directory	1850-	4,200
	Environmental Sciences and Marine and Coastal Resources	1774-	

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

NATIONAL OCEANOGRAPHIC DATA CENTER (NODC)

OTHER SERVICES: On-site use of collection; interlibrary loans; reproduction/publication services.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy; microfilm copy; microfiche copy.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

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NATIONAL SAFETY COUNCIL

ADDRESS: 425 North Michigan Avenue
Chicago, IL
60611

TELEPHONE: (312) 527-4800

DIRECTOR: Belkamp, R. G.

YEAR INFORMATION SOURCE BEGAN: 1914

MISSION: To develop, determine and evaluate methods and procedures to prevent accidents and reduce the fatalities, injuries and economic losses resulting from accidents; and to provide leadership for adoption and use of those methods and procedures that best serve the public interest.

SUBJECT SCOPE: Safety analysis; Behavioral and social sciences.

MAJOR SUBJECT TERMS: Safety analysis; Accidents; Accident prevention; Accident investigation; Aircraft safety.

RESEARCH AND DEVELOPMENT ACTIVITIES: The behavioral research staff conducts a variety of studies to define accident problems and evaluate the effectiveness of accident countermeasure programs.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Recht, J. L.	Statistics	(312) 527-4800

INTERNAL PUBLICATIONS: Books; handbooks/manuals; indexes; statistical compilations; periodicals/journals; newsletters/trade literature.

HOLDINGS: Statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

NAVAL AIR ENGINEERING CENTER (NAEC)

ADDRESS: Naval Air Engineering Center (NAEC)
Lakehurst, NJ
08733

TELEPHONE: (201) 323-2290

DIRECTOR: Kirby, D. L.

PARENT-SPONSOR-HOST AFFILIATION: Department of the Navy

YEAR INFORMATION SOURCE BEGAN: 1917

MISSION: To conduct programs of research, engineering, development, development test, systems integration, limited production, procurement, and fleet engineering support in aircraft launching, recovery, and landing aid systems, and ground support equipment for aircraft and airborne weapons systems. To support DOD standardization and specification programs. To provide aviation and other facilities in support of assigned programs and for other activities as designated by appropriate authority.

SUBJECT SCOPE: Aircraft problems; Reliability; Cryogenic safety; Fuels; Oils, lubricants and hydraulic fluids; Laboratories, test facilities and test equipment.

MAJOR SUBJECT TERMS: Ground support systems; Navigation aids; Fire fighting equipment; Cryogenic fluid safety; Fuels; Oils; Reliability; Recovery; Quality control; Corrosion; Tests; Test equipment; Propulsion system performance; Launching; Landing aids.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research and development in noise pollution analysis; NDT/I for engines; short field radar tests; containerization; oil analysis; noise suppression; hydraulics and fuels; cryogenic generation; corrosion control; high energy clutch, brake, and flywheel systems; V/STOL aircraft support; environmental protection; automated control of aircraft support, computer diagnostics, oil analysis studies; remotely piloted vehicles.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Kirby, D.	Physics	(201) 323-2290
O'Donnell,	Operations Research; Engineering Management	(201) 323-2391
Lata, E.	Systems Engineering	(201) 323-2330

STAFF: Full-time - professional 339, nonprofessional 683, total 1022; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Books; handbooks/manuals; technical reports; statistical compilations; newsletters/trade literature; standards and specifications; graphics/tabular materials.

HOLDINGS: Reports and reprints; periodicals; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; analytical studies; advisory and consulting services; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Reproduction/publication services.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: Government employees; government contractors.

USER RESTRICTIONS: Federal security clearance.

PRICING AND SERVICES CHARGES: All services free to qualified users.

DECEMBER 1975

NAVAL RESEARCH LABORATORY (NRL)

ADDRESS: 4555 Overlook Avenue SW
Washington, DC
20375

TELEPHONE: (202) 767-2357

DIRECTOR: Geary, J. T., Capt.

PARENT-SPONSOR-HOST AFFILIATION: Department of the Navy

YEAR INFORMATION SOURCE BEGAN: 1923

MISSION: To conduct a broadly-based multidisciplinary program of scientific research and advanced technological development directed toward new and improved materials, equipment, techniques, systems, and related operational procedures for the Navy.

SUBJECT SCOPE: Electronics and electrical engineering; Space technology; Physical oceanography; Communications; Metals; Physics; Mathematical sciences; Chemistry; Acoustics; Dangerous industrial radiation; Extraterrestrial environmental hazards; Propellants, fuels, lubricants, hydraulic fluid safety; Structural materials limitations (metallic and nonmetallic); Space vehicle problems.

MAJOR SUBJECT TERMS: Acoustics; Cosmic rays; Electromagnetic radiation; Fatigue (materials); Hydraulics; Lubricants; Propellants; Fuels; Information retrieval; Solar radiation; Reactor safety; Shock; Vibration; Electronics; Instruments; Nuclear radiation; Physics; Chemistry; Structural materials; Extraterrestrial environments.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performs scientific research and development for Systems Commands and offices of the Navy, the Department of Defense and other agencies.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Baster, D. P.	Physics	(202) 767-2357

INTERNAL PUBLICATIONS: Books; handbooks/manuals; abstracts; indexes; technical reports; periodicals/journals; conference papers; reference lists/bibliographies.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides language tapes and microfiche.

DATA BANK RESOURCES:

Name or Acronym	Description of Contents	Range of Years	No. of Records
DIALOG	Journal literature		
SPIN	Physics journals		

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; advisory and consulting services; referrals; translations.

OTHER SERVICES: On-site use of collection; accession of new acquisition lists; interlibrary loans; reproduction/publication services.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy; microfilm copy.

USER QUALIFICATIONS: Immediate staff or members; government employees; government contractors.

USER RESTRICTIONS: Federal security clearance.

PRICING AND SERVICES CHARGES: All services free to qualified users.

DECEMBER 1975

NAVAL WEAPONS SUPPORT CENTER (NAVWPNSUPPCTR)

ADDRESS: Commanding Officer
NAVWPNSUPPCTR
Crane, IN
47522

DIRECTOR: Marsischky, G. W.

PARENT-SPONSOR-HOST AFFILIATION: Department of the Navy; Indiana Univ.

YEAR INFORMATION SOURCE BEGAN: 1967

MISSION: To provide safety career development, education and training programs for Department of the Navy, military and civilian personnel in explosives, occupational transportation, systems, product, public, and general safety areas.

SUBJECT SCOPE: Man-machine hazards; Industrial safety manuals, codes, specifications, standards, etc.; Hygiene and sanitation; Fire, explosion and detonations; Safety analysis; Human factors engineering; Personnel development.

MAJOR SUBJECT TERMS: Human factors engineering; Safety analysis; Personnel development; Industrial hygiene; Explosives; Hazardous materials; Industrial safety.

RESEARCH AND DEVELOPMENT ACTIVITIES: Synthesize information from various sources of research data and publications in safety, systems analysis, management, science and engineering, medicine, law, and education to develop and maintain safety education and training programs consistent with the latest "state of the art."

SPECIAL SCOPE FEATURES: The NAVSEASYSOM Safety School's expertise is in teaching the application of the principles of science and engineering, management, systems analyses, medicine, law, and human factors for the resolution of special safety hazards and safety risk management problems.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Marsischky, G. W.	Fire Protection; Education	(812) 854-1432
Carper, W. E.	Explosives	(812) 854-1432
Dean, A. N.	Industrial Safety; Industrial Hygiene	(812) 854-1432
Jacobs, T. L.	Product Safety	(812) 854-1432
Leach, T. M.	Systems Engineering; Human Factors	(812) 854-1432
	Engineering	
Bowers, H. N.	Education	(812) 337-6325

STAFF: Full-time - professional 13, nonprofessional 3, total 16; part-time - professional 0, nonprofessional 4, total 4.

INTERNAL PUBLICATIONS: Reference lists/bibliographies.

HOLDINGS: Books; reports and reprints; periodicals; standards and specifications; films and slides; total number of titles 4,000.

REFERENCE AND QUERY SERVICES: Advisory and consulting services; referrals.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Not available.

USER QUALIFICATIONS: Immediate staff or members; government employees; government contractors.

USER RESTRICTIONS: Federal security clearance.

PRICING AND SERVICES CHARGES: Charge for non-government users.

DECEMBER 1975

ORIGINAL PAGE IS
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NEW YORK UNIV., CENTER FOR SAFETY

ADDRESS: Washington Square
New York, NY
10003

TELEPHONE: (212) 598-2156 (212) 598-2158 (212) 598-2157 (212) 598-2959

DIRECTOR: Grimaldi, J. V.

YEAR INFORMATION SOURCE BEGAN: 1938

MISSION: To help the community, business and industry to reduce losses and the harmful effects of hazards; to identify areas where safety problems and technology voids exist and to initiate research programs both in-house and on contract in these problem areas; to provide safety specialists for leadership in business, industry, government, education and military; to offer instruction for advanced degrees as well as non-degree specialist training.

SUBJECT SCOPE: Safety analysis; Industrial safety; Nuclear safety; Safety engineering; Dangerous materials; Psychology; Environmental biology; Mathematics and statistics; Behavioral and social sciences; Man-machine hazards; Operations research; Dangerous industrial radiation; Fire, explosion and detonations; Cryogenic safety; Bioengineering.

MAJOR SUBJECT TERMS: Industrial safety; Industrial hygiene; Safety analysis; Systems engineering; Safety engineering; Highway safety; Fire hazards; Reactor safety; Psychology; Physiological hazards; Human factors engineering; Hazardous materials; Structural engineering.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performs safety related research projects on contract to industry and government, including traffic safety program management, analysis of vehicle behavior in the presence and absence of billboards, use of optical sound motion pictures in driving while intoxicated arrest cases, personal factors in safe operation of motor vehicles; occupational biomechanics, biomechanics of lifting and material handling, use of biomechanical profiles in work measurement, electromyographic kinesiology in the analysis of work situations and hand tools, ergonomic evaluation of a redesigned surgical instrument, antihistamine effects on motor skills and vigilance; evaluation of state industrial safety codes; development of a critical review of the literature pertaining to childhood accidents; delayed alcohol effects on work safety.

SPECIAL SCOPE FEATURES: The Center's expertise is safety science and education in the areas of management, occupational safety and health, systems safety engineering, safety analysis, hazard control, traffic safety, evaluation of safety manuals, codes and specifications, industrial hygiene, military safety, psychology of hazard control. Research is being pursued in perceptual and cognitive capability during hangover; psychogenic effects of air ions; occupational biomechanics and ergonomics; traffic safety; nuclear safeguards and security. Co-publisher of Safety Science Abstracts.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Grimaldi, J. V.	Safety Engineering; Industrial Hygiene	(212) 598-2159
Slote, L.	Human Factors Engineering; Systems Engineering	(212) 598-2156
Tichauer, E. R.	Human Factors Engineering; Safety Engineering	(212) 679-3200 ext 2196
Elkow, J. D.	Education; Traffic Safety; Safety Engineering	(212) 598-2156
Courtenay, I.	Industrial Hygiene	(212) 598-2156
Flato, J. C.	Industrial Hygiene; Industrial Safety	(212) 598-3698
Dalton, W. F.	Industrial Hygiene; Industrial Safety; Systems Engineering	(212) 598-2156
Gordon, J. B.	Traffic Safety	(212) 598-2156
Rolnick, B.	Legal Liability	(212) 598-2156
Smulavitz, A. R.	Legal Liability	(212) 598-2156
Lipson, M.	Security	(212) 598-2156
Karaghevzoff, T.	Traffic; Traffic Safety	(212) 598-2156

STAFF: Full-time - professional 7, nonprofessional 4, total 11; part-time - professional 30, nonprofessional 0, total 30.

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports.

NEW YORK UNIV., CENTER FOR SAFETY

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; analytical studies; advisory and consulting services; experimental studies.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: Government employees; government contractors; industry.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

NONDESTRUCTIVE TESTING DATA SUPPORT CENTER (NTDSC)

ADDRESS: Southwest Research Institute
8500 Culebra Road
Post Office Drawer 28510
San Antonio, TX
78284

TELEPHONE: (512) 684-5111

DIRECTOR: Gardner, C. G.

PARENT-SPONSOR-HOST AFFILIATION: Defense Supply Agency; Southwest Research Institute

YEAR INFORMATION SOURCE BEGAN: 1974

MISSION: To serve the nondestructive testing informational needs of the US Government and industrial community, with emphasis on the requirements of the Department of Defense agencies, contractors and grantees, and other US Government agencies and their contractors. The Services are also available to the private sector.

SUBJECT SCOPE: Laboratories, test facilities and test equipment; Reliability; Metals; Composite materials; Structural materials limitations (metallic and nonmetallic); Optics; Acoustics; Ceramics.

MAJOR SUBJECT TERMS: Nondestructive evaluation; Information retrieval; Nuclear radiation; X-rays; Structural materials; Acoustics; Electromagnetic radiation; Materials; Magnetic properties; Quality control.

RESEARCH AND DEVELOPMENT ACTIVITIES: No research and development projects are initiated by NTDSC. Research and development services are available to NTDSC users. The following technical reports were generated by NTDSC: 1) Technology Assessment of Electromagnetic-Acoustic Transducer Technology; 2) State of the Art Survey on Ultrasonic Testing; and 3) Proceedings of AFML Residual Stress Workshop.

SPECIAL SCOPE FEATURES: The field of nondestructive testing embodies the entire spectrum of controlled material-energy interaction phenomena which may be used to evaluate the integrity of a material without impairing its serviceability. NTDSC maintains files of up-to-date technical data and information on the techniques, instruments, data processing and interpretation and standards employed for this purpose.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Gardner, C. G.	Information Retrieval; Nondestructive Evaluation	(515) 684-5111 ext 2737
King, A. R.	Information Retrieval; Nondestructive Evaluation	(515) 684-5111 ext 2361

STAFF: Full-time - professional 3, nonprofessional 2, total 5; part-time - professional 2, nonprofessional 0, total 2.

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; newsletters/trade literature; conference papers; reference lists/bibliographies.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications.

DATA BANK RESOURCES:

Name or Acronym	Description of Contents	Range of Years	No. of Records
NTFILE	NTDSC technical reports	1960-present	10,000
TRFILE	DDC technical reports	1953-present	
WUFILE	File of current DOD contracts and projects	current only	

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; state-of-the-art reviews; advisory and consulting services; referrals; bibliographic abstracts.

OTHER SERVICES: On-site use of collection; conferences/symposiums.

NONDESTRUCTIVE TESTING, DATA SUPPORT CENTER (NDTSC)

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Not available.

USER QUALIFICATIONS: General technology community; government employees; government contractors.

USER RESTRICTIONS: Federal security clearance.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

NORTHERN ARIZONA UNIV., DEPT. OF PHYSICS

ADDRESS: Code 111184
Box 6010
Northern Arizona University
Flagstaff, AZ
86001

TELEPHONE: (602) 523-2661

DIRECTOR: Willis, W. R.

SUBJECT SCOPE: Astronomy; Astrophysics; Optical detection; Optics; Extraterrestrial environmental hazards.

MAJOR SUBJECT TERMS: Astronomy; Physics; Electromagnetic interference; Extraterrestrial environments.

RESEARCH AND DEVELOPMENT ACTIVITIES: New areas of research include studies of Lunar normal albedo and Heiligenschein using both Apollo photography and Earth-based astronomical photometry, leading to a digital file of Albedo and Heiligenschein surge; development of digital image processing methods for in-core operator-independent automated photogrammetry; development of generalization of monoscopic photoclinometry useable with arbitrary photometric functions; additional studies in radiative transfer in porous airless media; and work on Martian wind systems.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Wilkey, R. L.	Astronomy	(602) 523-2661

DECEMBER 1975

NORTHWESTERN UNIVERSITY TECHNOLOGICAL INST., DESIGN AND DEVELOPMENT CENTER

ADDRESS: Technological Institute
Northwestern University
Evanston, IL
60201

TELEPHONE: (312) 492-3668

DIRECTOR: Rath, G. J.

SUBJECT SCOPE: Human factors engineering; Industrial processes; Behavioral and social sciences.

MAJOR SUBJECT TERMS: Human factors engineering; Industrial safety.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Rath, G. J.	Human Factors Engineering; Engineering Management	(312) 492-3668

DECEMBER 1975

NORTHWESTERN UNIV., TRANSPORTATION CENTER LIBRARY

ADDRESS: 1810 Hinman Avenue
Evanston, IL
60204

TELEPHONE: (312)492-5273

DIRECTOR: Jacobson, B.

YEAR INFORMATION SOURCE BEGAN: 1957

MISSION: To serve the staffs of its two supporting organizations, the Transportation Center and the Traffic Institute, as well as Northwestern University students and faculty and others concerned with research in and study of transportation.

SUBJECT SCOPE: Safety analysis; Operations research; Air facilities.

MAJOR SUBJECT TERMS: Transportation; Highway safety; Railroads; Aircraft safety; Operations research; Safety analysis.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Jacobson, B.	Information Retrieval	(312)492-5273

STAFF: Full-time - professional 5, nonprofessional 6, total 11; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Abstracts; indexes; reference lists/bibliographies.

HOLDINGS: Books and pamphlets - 70,444; abstracts/indexes; periodicals 1,000; reference lists/bibliographies.

REFERENCE AND QUERY SERVICES: Referrals; custom abstracting and indexing services; copying; state of the art compilation.

OTHER SERVICES: Interlibrary loans.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for user outside organization.

DECEMBER 1975

NUCLEAR REGULATORY COMMISSION, OFFICE OF INSPECTION AND ENFORCEMENT

ADDRESS: Office of Inspection and Enforcement
 US Nuclear Regulatory Commission
 Washington, DC
 20555

TELEPHONE: (301) 492-7473

DIRECTOR: Knuth, D. F.

YEAR INFORMATION SOURCE BEGAN: 1954

MISSION: To inspect licensees of nuclear facilities, byproduct nuclear materials, and special nuclear materials for the health and safety aspects of their operations. In addition the protection of licensed special nuclear materials from unauthorized uses are also inspected as appropriate for conformance with Federal requirements of rules or license conditions.

SUBJECT SCOPE: Nuclear safety; Nuclear shielding and protection; Physiology.

MAJOR SUBJECT TERMS: Reactor safety; Physiological hazards; Inspection.

RESEARCH AND DEVELOPMENT ACTIVITIES: Recommends research and development activities related to improving inspection techniques. Also sponsor development work related to improved analytical services performed by inspection personnel in the discharge of their activities.

SPECIAL SCOPE FEATURES: Nuclear industry inspections include onsite construction, operations, health physics, environmental safeguards, and vendor associated activities. Also conducts investigations of incidents or accidents at licensed facilities.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Knuth, D. F.	Reactor Safety	(301) 492-7397

STAFF: Full-time - professional 300, nonprofessional 100, total 400; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Technical reports; statistical compilations; newsletters/trade literature.

HOLDINGS: Reports and reprints; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; referrals.

OTHER SERVICES: On-site use of collection.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Not available.

USER QUALIFICATIONS: Staff or members of affiliated organizations.

USER RESTRICTIONS: Federal security clearance.

PRICING AND SERVICES CHARGES: All services free to qualified users.

DECEMBER 1975

OAK RIDGE ASSOCIATED UNIV., RADIATION EMERGENCY ASSISTANCE CENTER/TRAINING SITE (REAC/TS)

ADDRESS: Oak Ridge Associated Universities
 REAC-TS Registry Office
 Box 117
 Oak Ridge, TN
 37830

TELEPHONE: (615) 483-8411 (Day) or (615) 483-6351 (Night)

DIRECTOR: Lushbaugh, C. C.

PARENT-SPONSOR-HOST AFFILIATION: Energy Research and Development Administration

YEAR INFORMATION SOURCE BEGAN: 1975

MISSION: To assist ERDA, its contractors, and the general nuclear industry in training physicians, nurses, and paramedical emergency personnel in radiation-accident management, and treating irradiated and contaminated persons; to maintain and update a Human Radiation-Accident Data Bank which includes follow-up studies of radiation-accident survivors.

SUBJECT SCOPE: Radiobiology; Dangerous industrial radiation; Radioactivity; Nuclear safety; Personnel training.

MAJOR SUBJECT TERMS: Irradiation; Ionizing radiation; Reactor safety; Nuclear radiation; Radiation; Accidents; Personnel development; Education.

RESEARCH AND DEVELOPMENT ACTIVITIES: To maintain a computerized system of Radiation Registries containing were possible the actual clinical histories and records of follow-up of the course and fate of individual radiation-accident victims and survivors, and data on the nature and causes of radiation accident. A special data bank, developed through the combined support of ERDA and the National Aeronautics and Space Administration (NASA), contains the clinical records of about 3000 patients who received therapeutic total-body irradiation well documented in terms of radiation physics, dosimetry, and hematology.

SPECIAL SCOPE FEATURES: REAC/TS staff expertise allows for special programs of cooperation with other ERDA contractors on Health Assessment of Reactor Site Committees, long-term follow up and comparative studies of the morbidity and mortality of atomic workers who in the past were occupationally exposed to plutonium.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Lushbaugh, C. C.	Medicine	(615) 483-8411 ext 215
Hubner, K.	Medicine	(615) 483-8411 ext 285
Ricks, R. C.	Accidents; Statistics	(615) 483-8411 ext 275
Cloutier, R. J.	Education	(615) 483-8411 ext 263
Beck, W. L.	Education	(615) 483-8411 ext 263
Berger, J. D.	Reactor Safety	(615) 483-8411 ext 333

STAFF: Full-time - professional 5, nonprofessional 7, total 12; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; reference lists/bibliographies; reprints.

HOLDINGS: Reports and reprints; reference lists/bibliographies; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information; advisory and consulting services.

OTHER SERVICES: Courses/workshops.

USER QUALIFICATIONS: Ad hoc permission.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

OAK RIDGE NATIONAL LABORATORY, HEALTH PHYSICS DIVISION (ORNL)

ADDRESS: ORNL, PO Box X
Oak Ridge, TN
37830

DIRECTOR: Auxier, J. A.

YEAR INFORMATION SOURCE BEGAN: 1963

MISSION: To research and develop new dosimetry concepts which will provide new or improved measuring devices for characterizing radiation fields in which human exposure might occur.

SUBJECT SCOPE: Dangerous industrial radiation; Radioactivity; Isotopes; Nuclear instrumentation; Miscellaneous detection.

MAJOR SUBJECT TERMS: Radioactive isotopes; Detectors; Radiation; Irradiation; Reactor safety; Nuclear radiation; Environments; Ionizing radiation.

RESEARCH AND DEVELOPMENT ACTIVITIES: Design and test new types of dosimeter and dosimetry techniques under laboratory and field conditions, build appropriate readers, prepare and distribute standardized dosimeters and to organize dosimetry intercomparison studies at a national and international level.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Gammage, R. B.	Dosimeters	(615) 483-8611 ext 3-1592
Thorngate, J.	Spectroscopy	(615) 483-8611 ext 3-1592
Heywood, F. F.	Radioactive Isotopes	(615) 483-8611 ext 3-1592

STAFF: Full-time - professional 17, nonprofessional 9, total 26; part-time - professional 6, nonprofessional 0, total 6.

INTERNAL PUBLICATIONS: Technical reports; annual reports; critical reviews; reference lists/bibliographies.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information; state-of-the-art reviews; advisory and consulting services; referrals.

OTHER SERVICES: Courses/workshops; conferences/symposiums; dosimetry intercomparison meetings.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICES CHARGES: All services free to qualified users (charges for some materials).

DECEMBER 1975

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OFFICE OF HAZARDOUS MATERIALS (OHM)

ADDRESS: 2100 Second St. S.W.
Washington, DC
20590

TELEPHONE: (202) 426-0656

DIRECTOR: Roberts, A. I.

PARENT-SPONSOR-HOST AFFILIATION: Department of Transportation

YEAR INFORMATION SOURCE BEGAN: 1970

MISSION: To coordinate the development of regulations and issuance of notices of proposed rule-making for transportation of hazardous materials by all modes of transport except bulk shipments by water; to conduct compliance inspections of shippers of hazardous materials and manufacturers of specification packages used in shipments of hazardous materials; to maintain the central reporting system for hazardous materials; and to conduct training programs for shippers and carriers of hazardous materials.

SUBJECT SCOPE: Dangerous materials; Ground transportation equipment; Cryogenic safety.

MAJOR SUBJECT TERMS: Cryogenic fluid safety; Liquified gases; Transportation; Shipping regulations; Accident investigation; Hazardous materials; Fire fighting; Safety regulations; Fluorine.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research in packaging, hazardous materials classification and information and service failures.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Burns, W. J.	Chemical Engineering	(202) 426-0656
Newmark, H.	Fluorine	(202) 426-0656

STAFF: Full-time - professional 28, nonprofessional 11, total 39; part-time - professional 0, nonprofessional 0, total 0.

HOLDINGS: Reports and reprints; reference lists/bibliographies; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Conferences/symposiums.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: All services free to qualified users.

DECEMBER 1975

OHIO STATE UNIV., AVIATION MEDICINE RESEARCH LABORATORY

ADDRESS: The Ohio State University
400 W 12 Avenue
Columbus, OH
43201

TELEPHONE: (614) 422-3821

DIRECTOR: Wick, R. L.

YEAR INFORMATION SOURCE BEGAN: 1960

MISSION: Training physicians in the art and science of aerospace medicine; research into the man machine interface; and consultation service to the aviation industry in the area of pilot physical evaluation and aeromedical standards.

SUBJECT SCOPE: Man-machine hazards; Physiology; Human factors engineering.

MAJOR SUBJECT TERMS: Aerospace medicine; Medicine; Human factors engineering; Accident investigation.

RESEARCH AND DEVELOPMENT ACTIVITIES: Current projects include studies into the effects of learning on pilot coordination tasks in fixed and rotary winged aircraft; pilot incapacitation rates and causes; and the effects of ethanol and drugs on pilot performance and flight.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext.(x)
Wick, R. L.	Aerospace Medicine	(614) 422-3821
Ellingson, H. V.	Aerospace Medicine	(614) 422-3821
Whitehead, E. J.	Aerospace Medicine	(614) 422-3821

STAFF: Full-time - professional 2, nonprofessional 2, total 4; part-time - professional 6, nonprofessional 0, total 6.

REFERENCE AND QUERY SERVICES: Advisory and consulting services.

USER QUALIFICATIONS: General technology community Aeromedical community.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

OHIO STATE UNIV. PHYSIOLOGICAL FLUID MECHANICS RESEARCH GROUP (PFH)

ADDRESS: Bio-medical Engineering Center
Room G50, Sisson Hall
1900 Coffey Road
Columbus, OH
43210

TELEPHONE: (614) 422-9524; (614) 422-8122

DIRECTOR: Nerem, R. M.

MISSION: The PFM Research Group consists of faculty members, graduate students, and staff operating with each other in the interdisciplinary study of fluid mechanics related problems in physiology and biology.

SUBJECT SCOPE: Man-machine hazards; Bioengineering; Physiology; Stress physiology; Fluid mechanics; Biology.

MAJOR SUBJECT TERMS: Medicine; Physiology; Physiological hazards; Fluid mechanics; Aerospace medicine.

RESEARCH AND DEVELOPMENT ACTIVITIES: Current projects include: cardiovascular, renal and respiratory effects of high intensity, intermediate duration, low frequency vibration; and other projects dealing with fluid mechanics and physiology.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext.(x)
Nerem, R. M.	Aerospace Engineering	(614) 422-9524
Hamlin, R. L.	Physiology	(614) 422-6031
Donnerberg, P. L.	Medicine	(614) 422-6031
Karayannacos, P. E.	Medicine	(614) 422-6031

STAFF: Full-time - professional 4, nonprofessional 1, total 5; part-time - professional 14, nonprofessional 5, total 19.

INTERNAL PUBLICATIONS: Technical reports.

HOLDINGS: Reports and reprints.

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations; ad hoc permission; government employees; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

OIL AND HAZARDOUS MATERIAL TECHNICAL ASSISTANCE DATA SYSTEM (OHM-TADS)

ADDRESS: Pacific Northwest Laboratory
 Battelle Memorial Institute
 P.O. Box 999
 Richland, WA
 99352

TELEPHONE: (509) 946-2665

DIRECTOR: Dawson, G.

PARENT-SPONSOR-HOST AFFILIATION: Battelle Memorial Inst.

YEAR INFORMATION SOURCE BEGAN: 1972

MISSION: The Oil and Hazardous Materials Technical Assistance Data System is an automated information retrieval file designed to facilitate rapid retrieval of information on more than 900 oils and hazardous materials. The system is of great value for both on-line response to spill incidents and for summary evaluations relating to direct enforcement and research activities. Information retrieval for spills of known and unknown materials is available.

SUBJECT SCOPE: Dangerous materials/Cryogenic safety.

MAJOR SUBJECT TERMS: Information retrieval; Hazardous materials; Oils; Waste disposal; Cryogenic fluid safety; Reactor safety; Toxicity; Accidents.

RESEARCH AND DEVELOPMENT ACTIVITIES: Update to 1975 includes in-house generation of aquatic toxicity data.

SPECIAL SCOPE FEATURES: The OHM-TADS system includes a wide variety of physical, chemical, biological, toxicological, air, land, and commercial information on oil and hazardous materials with the greatest emphasis being placed on the deleterious effects these materials may have on water quality.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Dawson, G.	Hazardous Materials	(509) 946-2665

STAFF: Full-time - professional 6, nonprofessional 22, total 28; part-time - professional 0, nonprofessional 0, total 0.

HOLDINGS: Books; reports and reprints; periodicals.

DATA BANK RESOURCES:

Name or Acronym	Description of Contents	Range of Years	No. of Records
OHM-TADS	Hazardous Material	to 1975	850

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; advisory and consulting services.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community; government employees; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

OLD DOMINION UNIV., PERFORMANCE ASSESSMENT LABORATORY (PAL)

ADDRESS: Department of Psychology
Old Dominion University
Norfolk, VA
23508

TELEPHONE: (804)489-6535

DIRECTOR: Alluisi, E. A.

YEAR INFORMATION SOURCE BEGAN: 1974

MISSION: To plan and conduct research concerning man's performance capabilities and the effects of temporal, environmental, and organismic stresses on complex human performance. Particular emphasis is given to investigations of work behavior and the extent to which sustained performance is influenced by stress. Interdisciplinary programs of research and teaching are fostered in areas related to the biological, engineering, industrial, physiological, psychological, and social aspects of performance.

SUBJECT SCOPE: Psychology; Human factors engineering; Behavioral and social sciences; Stress physiology; Physiology; Toxicology.

MAJOR SUBJECT TERMS: Human factors engineering; Industrial safety; Stress analysis; Vibration; Noise (sound); Personnel development; Personnel selection; Psychology; Information retrieval; Human performance.

RESEARCH AND DEVELOPMENT ACTIVITIES: Research is conducted on the effects of stresses such as illness, continuous work, noise, sleep loss, and vibration on human performance and passenger ride quality.

SPECIAL SCOPE FEATURES: The synthetic-work approach employed by PAL has been employed successfully for 15 years to measure the effects of various stresses on complex work performance. The multiple task performance battery (MTPB) which provides for the assessment of work behavior is one of the only three such batteries currently employed in performance assessment research.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Adkins, C. J.	Human Performance	(804) 489-6294
Alluisi, E. A.	Human Performance	(804) 489-6535
Bernardin, H. J.	Human Performance	(804) 489-6535
Coates, G. D.	Psychology; Human Performance	(804) 489-6535
Gillen, H. B.	Psychology	(804) 489-6294
Kirby, R. H.	Human Performance	(804) 489-6535
Mikulka, P. J.	Human Performance	(804) 489-6535
Morgan, B. B.	Human Performance; Human Factors Engineering	(804) 489-6535

STAFF: Full-time - professional 10, nonprofessional 0, total 10; part-time - professional 8, nonprofessional 0, total 8.

INTERNAL PUBLICATIONS: Abstracts; technical reports; periodicals/journals.

HOLDINGS: Books; reports and reprints; periodicals; reference lists/bibliographies.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; referrals.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

PENNSYLVANIA STATE UNIV., APPLIED RESEARCH LABORATORY

ADDRESS: Penn State University
Applied Research Laboratory
PO Box 30
State College, PA
16801

TELEPHONE: (814) 865-1395

DIRECTOR: Johnson, J. C.

PARENT-SPONSOR-HOST AFFILIATION: Dept. of the Navy

YEAR INFORMATION SOURCE BEGAN: 1965

MISSION: To support the Department of the Navy and its contractors in the general area of torpedoes, including safety. Use of wide range of technical experience from other academic departments of the University.

SUBJECT SCOPE: Combustion and ignition; Fuels; Operations research.

MAJOR SUBJECT TERMS: Explosives; Fuels; Propulsion; Combustion; Fires.

RESEARCH AND DEVELOPMENT ACTIVITIES: Power sources for propulsion, structural failures under high pressure, handling and storage safety. University has wide range of combustion projects in fuels.

SPECIAL SCOPE FEATURES: Special facilities available include combustion laboratory, high velocity water tunnels, high pressure test facilities, large computer center, cryographic facilities, and reactor.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Kiely, D.	Propellants; Fuels	(814) 865-7505
Key, C.	Explosives	(814) 865-3485
Eissenhuth, R.	Combustion	(814) 865-1741
Faeth, G.	Combustion	(814) 865-3743
Bland, R.	Fires	(814) 865-5467

STAFF: Full-time - professional 212, nonprofessional 78, total 290; part-time - professional 0, nonprofessional 71, total 71.

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; conference papers; reference lists/bibliographies.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; films and slides; total number of titles 22,000.

REFERENCE AND QUERY SERVICES: Analytical studies; advisory and consulting services; custom abstracting and indexing services.

OTHER SERVICES: On-site use of collection; courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

PENNSYLVANIA STATE UNIV., LABORATORY FOR HUMAN PERFORMANCE RESEARCH

ADDRESS: 119 Noll Laboratory
 Pennsylvania State University
 University Park, PA
 16802

TELEPHONE: (814) 865-3453

DIRECTOR: Buskirk, E. R.

MISSION: To investigate various aspects of the man-environment complex in order to better understand man's tolerance of environmental stress, his physiological and behavioral limits, and his potential for inducing beneficial change in himself or his environment to increase his productivity or improve the quality of his life style.

SUBJECT SCOPE: Bioengineering; Escape, rescue and survival; Life support; Physiology; Protective equipment; Stress physiology.

MAJOR SUBJECT TERMS: Physiology; Physiological hazards; Escape systems; Rescue operations; Protective equipment; Survival; Breathing apparatus; Human performance; Human factors engineering.

RESEARCH AND DEVELOPMENT ACTIVITIES: Fields of research include: obesity; respiratory and circulatory responses of miners to emergency; evaluation of heat stress; exercise stress testing; physiological consequences of aging; physical conditioning; and prevention of coronary heart disease.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Buskirk, E. R.	Physiology	(814) 865-3453
Ramon, E.	Physiology; Human Factors Engineering	(814) 863-0045; (814) 865-3453
Barlett, L.	Physiology	(814) 865-3453
Gahagan, H.	Physiology	(814) 865-3453; (814) 863-0768
Hodgson, J.	Physiology	(814) 865-3453; (814) 865-4302
Kollias, J.	Physiology	(814) 865-3453; (814) 865-3653
Loomis, J.	Physiology	(814) 865-3453
Mendez, J.	Physiology	(814) 865-3453; (814) 863-0057
Nicholas, W. C.	Physiology	(814) 865-3453; (814) 865-7103

INTERNAL PUBLICATIONS: Technical reports.

DECEMBER 1975

PHASE DIAGRAMS FOR CERAMISTS

ADDRESS: National Bureau of Standards
Washington, DC
20234

TELEPHONE: (301) 921-3842

DIRECTOR: Cook, L.

PARENT-SPONSOR-HOST AFFILIATION: National Bureau of Standards; American Ceramic Society, Inc.

YEAR INFORMATION SOURCE BEGAN: 1933

MISSION: To collect phase diagrams of inorganic non-metallic, generally non-aqueous systems, and periodically publish them for the benefit of scientists and engineers in the various disciplines, who need and use such information.

SUBJECT SCOPE: Ceramics, refractories and glass; Inorganic chemistry; Physical and general chemistry; Miscellaneous materials.

MAJOR SUBJECT TERMS: Physical properties; Chemical properties; Ceramics; Standards; Refractories; Glass.

RESEARCH AND DEVELOPMENT ACTIVITIES: In the volume presently being compiled, commentaries will be provided for each diagram, covering sources and purity of materials, methods, standards and physical properties data given in the references.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Cook, L.	Chemistry	(301) 921-3842

INTERNAL PUBLICATIONS: Handbooks/manuals; standards and specifications.

HOLDINGS: Abstracts/indexes; reports and reprints; periodicals; private communications; patents.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; referrals; data collection; cooperative programs.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: All services free to qualified users.

DECEMBER 1975

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PICATINNY ARSENAL, SCIENTIFIC AND TECHNICAL INFORMATION DIVISION (STINFO)

ADDRESS: ATTN: SARDA-TS-S, Building 59
Dover, NJ
07801

TELEPHONE: (201) 328-2914

DIRECTOR: Varieur, N. L.

PARENT-SPONSOR-HOST AFFILIATION: Dept. of the Army

YEAR INFORMATION SOURCE BEGAN: 1929

MISSION: To serve as the technical library, technical museum and technical exhibits for the scientists and engineers in research and development technology and engineering at Picatinny Arsenal and to act as the principal US Army depository of publications and documents on ammunition, nuclear weapons, and related items.

SUBJECT SCOPE: Ammunition, explosives and pyrotechnics; Plastics; Fire, explosion and detonations; Physics; Chemistry; Electronics and electrical engineering; Navigation, communications, detection and countermeasures; Weapon effects; Propulsion, engines and fuels; Ordnance.

MAJOR SUBJECT TERMS: Physics; Operations research; Explosives; Information retrieval; Propellants; Pyrotechnics; Plastics; Lasers; Chemistry; Electronics.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Varieur, N. L.	Information Retrieval	(201) 328-2914

STAFF: Full-time - professional 19, nonprofessional 16, total 35; part-time - professional 0, nonprofessional 1, total 1.

INTERNAL PUBLICATIONS: Technical reports; newsletters/trade literature (bulletins).

HOLDINGS: Books 46,000; abstracts/indexes; reports and reprints 150,000; periodicals (bound - 18,000); reference lists/bibliographies; standards and specifications; total number of titles (periodicals) - 14,000.

DATA BANK RESOURCES:

Name or Acronym	Description of Contents	Range of Years	No. of Records
Defense RDT and E On-Line System (DDC)	Reports on completed RDT and E efforts; summary work units on ongoing RDT and E efforts.	1951-to date	764,000 reports, 75,000 work units, 10,000 planning summaries

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; referrals; bibliographic abstracts; translations.

OTHER SERVICES: On-site use of collection; accession of new acquisition lists; interlibrary loans; reproduction/publication services; courses/workshops.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Microfiche copy 350,000.

USER QUALIFICATIONS: Ad hoc permission; government employees; government contractors.

PRICING AND SERVICES CHARGES: All services free to qualified users.

DECEMBER 1975

PICKLESIMER, M.L., CONSULTANT

ADDRESS: 410 Kramer Drive
Vienna, VA
22180

SUBJECT SCOPE: Metals; Mechanics of structural failure; Nuclear safety.

MAJOR SUBJECT TERMS: Zirconium; Titanium; Failure; Reactor safety.

SPECIAL SCOPE FEATURES: Technical expertise in areas of failure analysis includes LNG, NG, pipe lines, propane cylinders, fluorescent light suspension tubes, components of gas explosions and the metallurgy of alloys pertinent to nuclear reactor technology.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Picklesimer, M. L.	Failure Analysis; Safety Analysis	(301) 973-4345

REFERENCE AND QUERY SERVICES: Questions answered individually and selectively.

USER QUALIFICATIONS: Government employees; government contractors.

PRICING AND SERVICES CHARGES: All services free to qualified users.

DECEMBER 1975

PLASTICS TECHNICAL EVALUATION CENTER (PLASTEC)

ADDRESS: Picatinny Arsenal
Dover, NJ
07801

TELEPHONE: (201) 328-4222

DIRECTOR: Pebly, H. E.

PARENT-SPONSOR-HOST AFFILIATION: Department of Defense

YEAR INFORMATION SOURCE BEGAN: 1960

MISSION: To evaluate and disseminate technical information on current development, engineering and application of work in the field of plastics, adhesives, and reinforced plastics.

SUBJECT SCOPE: Composite materials; Adhesives and seals; Plastics; Materials; Chemistry; Industrial processes; Containers and packaging.

MAJOR SUBJECT TERMS: Information retrieval; Plastics; Elastomers; Materials; Adhesives; Electronics; Chemistry; Composite materials.

RESEARCH AND DEVELOPMENT ACTIVITIES: Generates data for inclusion in MIL-HDBK-17A, Plastics for Aerospace Vehicles; prepares state-of-the-art reports which may, by synthesis, generate new data from existing data. Develop materials property bank, including hazard/failure data.

SPECIAL SCOPE FEATURES: End items and hardware oriented. Specializes in materials properties, processing and performance. Does not specialize in research or on synthesis of polymers.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Anzalone, A. M.	Information Retrieval	(201) 328-2778
Landrock, A. J.	Adhesives	(201) 328-3189
Pebly, H. B.	Plastics	(201) 328-4222
Readdy, A.	Chemistry; Electronics	(201) 328-3189
Slobodzinski, A.	Composite Materials	(201) 328-3189
Titus, J. B.	Materials	(201) 328-2778
Haciejczyk, J.	Materials	(201) 328-2778

STAFF: Full-time - professional 8, nonprofessional 2, total 10; part-time - professional 2, nonprofessional 3, total 5.

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports.

HOLDINGS: Books 300; abstracts/indexes 20,000; reports and reprints 20,000; periodicals 100; reference lists/bibliographies 200; standards and specifications 500; total number of titles 21,000; range of years of total 15 yrs.

DATA BANK RESOURCES:

Name or ACRONYM	Description of Contents	Range of Years	No. of Records
	Plastics and adhesives	15	20,000

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Not available.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users; charge for non-government users.

PROFESSIONAL AIR TRAFFIC CONTROLLERS ORGANIZATION (PATCO)

ADDRESS: 2100 M Street, N.W.
Suite 706
Washington, DC
20037

TELEPHONE: (202) 296-6444

DIRECTOR: Leyden, J. F.

YEAR INFORMATION SOURCE BEGAN: 1968

MISSION: To maintain and improve air safety, especially in the area of air traffic control.

SUBJECT SCOPE: Safety analysis; Air facilities; Aircraft flight instrumentation; Navigation and guidance; Personnel selection, training and evaluation.

MAJOR SUBJECT TERMS: Airports; Landing aids; Air traffic control; Civil aviation; Flight control; Flight instruments; Flight paths; Navigation aids; Safety analysis; Safety procedures; Accident investigation; Accident prevention; Personnel development.

RESEARCH AND DEVELOPMENT ACTIVITIES: Air hazards and accident analysis; safety recommendations, especially air traffic safety, with a complete analysis of the present air traffic system to ascertain long and short range ways to improve it.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Miller, C. O.	Aircraft Safety; Accident Investigation	(703) 356-5063

STAFF: Full-time - professional 24, nonprofessional 0, total 24; part-time - professional 0, nonprofessional 1, total 1.

INTERNAL PUBLICATIONS: Technical reports; periodicals/journals; newsletters/trade literature.

REFERENCE AND QUERY SERVICES: Questions answered individually.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Not available.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: All services free to qualified users.

DECEMBER 1975

ORIGINAL PAGE IS
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R. DIXON SPEAS, ASSOCIATES

ADDRESS: 47 Hillside Avenue
Manhasset, New York
11030

TELEPHONE: (516) 627-7460

DIRECTOR: Speas, R. D.

PARENT-SPONSOR-HOST AFFILIATION: Planning Research Corporation

YEAR INFORMATION SOURCE BEGAN: 1951

MISSION: To provide professional service organization for the aviation industry in the form of studies and recommendations primarily directed to airline transportation, airport planning, general aviation, and product analysis for aircraft and component manufacturers. Studies are conducted by experts in all phases of engineering, operations, economics, and marketing.

SUBJECT SCOPE: Air facilities; Aircraft; Aircraft flight instrumentation; Human factors engineering; Personnel selection, training and evaluation.

MAJOR SUBJECT TERMS: Maintenance; Airports; Aircraft safety; Environments; Human factors engineering; Navigation aids; Aircraft maintenance.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Bornemann, D.	Computer Programming	(516) 627-7460
Feir, J.	Aircraft Safety; Information Retrieval	(516) 627-7460
Keitz, J.	Flight Control	(516) 627-7460
Miller, J.	Aircraft Maintenance	(516) 627-7460
Robart, C.	Environments	(516) 627-7460
Singer, B.	Airport Planning	(516) 627-7460
Warskow, M.	Air Traffic Control	(516) 627-7460
Wemple, E.	Information Retrieval	(516) 627-7460

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; statistical compilations; periodicals/journals.

HOLDINGS: Abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; total number of titles 2,000.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

RAILROAD RESEARCH INFORMATION SERVICE (RRIS)

ADDRESS: Transportation Research Board
National Academy of Sciences
2101 Constitution Avenue, N.W.
Washington, DC
20418

TELEPHONE: (202) 389-6611

DIRECTOR: Houser, F. N.

PARENT-SPONSOR-HOST AFFILIATION: Federal Railroad Administration

YEAR INFORMATION SOURCE BEGAN: 1973

MISSION: To collect, classify and disseminate information covering the entire range of railroading and railroad technology.

SUBJECT SCOPE: Propulsion, engines and fuels; Communications; Ground transportation equipment; Fire, explosion and detonations; Dangerous materials; Industrial safety manuals, codes, specifications, standards, etc.; Safety analysis; Human factors engineering; Snow, ice and permafrost; Soil mechanics; (Electrical) components; Electronic and electrical engineering; Metals; Oils, lubricants, and hydraulic fluids; Corrosion and degradation; Mechanical, industrial, civil and marine engineering; Methods and equipment.

MAJOR SUBJECT TERMS: Railroads; Railroad accidents; Propulsion system performance; Vehicles (land); Human factors engineering; Information retrieval; Transportation; Maintenance.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Houser, F. N.	Railroads	(202) 389-6611

STAFF: Full-time - professional 3, nonprofessional 1, total 4; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Abstracts; indexes; periodicals/journals; reference lists/bibliographies.

HOLDINGS: Abstracts/indexes; reference lists/bibliographies; standards and specifications; total number of titles 8100; range of years of total 1973-.

DATA BANK RESOURCES:

Name or ACRONYM	Description of Contents	Range of Years	No. of Records
	Comprehensive U.S. & International Railroading Information	1973-complete	9400

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information.

OTHER SERVICES: Reproduction/publication services.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

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OF POOR QUALITY

REYNOLDS METALS CO., TECHNICAL INFORMATION SERVICES (TIS)

ADDRESS: Fourth and Canal Streets
P.O. Box 2346
Richmond, VA
23218

TELEPHONE: (703) 649-1411

DIRECTOR: Dietsch, F. F.

YEAR INFORMATION SOURCE BEGAN: 1965

MISSION: To be responsible for the acquisition, storage and retrieval of all technical information required by the technical professional staff of the Reynolds Metals Company.

SUBJECT SCOPE: Composite materials; Metals; Containers and packaging; Corrosion and degradation.

MAJOR SUBJECT TERMS: Aluminum; Metallurgy; Corrosion; High strength alloys; Materials.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Dietsch, F. F.	Information Retrieval	(703) 649-1411

STAFF: Full-time - professional 6, nonprofessional 2, total 8; part-time - professional 0, nonprofessional 0, total 0.

HOLDINGS: Books 14,000; reports and reprints; periodicals.

REFERENCE AND QUERY SERVICES: Retrospective searches (literature); state-of-the-art reviews and compilations; translations.

OTHER SERVICES: Interlibrary loans.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Microfilm copy.

USER QUALIFICATIONS: Immediate staff or members; other libraries.

DECEMBER 1975

ROYLANCE, HERBERT M., CONSULTANT

ADDRESS: 2013 North Inglewood Street
Arlington, VA
22205

TELEPHONE: (703) 536-8694

DIRECTOR: Roylance, H. M.

MISSION: To provide safety consulting services with particular reference to the explosives safety aspects of weapons, including their explosive components and propellants, and to provide advisory services in these areas.

SUBJECT SCOPE: Ordnance; Ammunition, explosives and pyrotechnics.

MAJOR SUBJECT TERMS: Pyrotechnics; Propellants; Explosives; Safety procedures; Safety regulations.

SPECIAL SCOPE FEATURES: Expertise in all types of explosives, propellants, and pyrotechnics; facilities design and layout, including siting for manufacture, processing, and research and development of subject items. Assistance in preparation of safety manuals and safety standards.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Roylance, H. M.	Explosives; Safety Procedures	(703) 536-8694

INTERNAL PUBLICATIONS: Technical reports; conference papers.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services; referrals.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community in explosives; ad hoc permission; government contractors and activities.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

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SMOKE, FIRE AND BURN FOUNDATION, INC.

ADDRESS: 53 State Street
Boston, MA
02109

TELEPHONE: (617) 742-1609

DIRECTOR: Phillips, A. W., Dr.

YEAR INFORMATION SOURCE BEGAN: 1973

MISSION: To sponsor and promote public education on fire prevention and safety; to sponsor and promote scientific research on prevention, detection and control of fire and on protection of the public and the firefighter therefrom, and to carry on medical research, including investigations and studies to discover, develop or verify knowledge relating to the causes, prevention, diagnosis, and treatment of traumatic injuries, especially those resulting from heat, fire and chemicals (including burns, heat exposure, shock, oxygen deprivation and injuries due to the inhalation of irritant and toxic combustion products), and to collect, tabulate, and correlate data, all with a view of public dissemination of knowledge and information in these areas.

SUBJECT SCOPE: Fire, explosion and detonations; Combustion and ignition.

MAJOR SUBJECT TERMS: Fire prevention; Fire fighting; Fires; Smoke; Combustion; Toxicity; Burns (injuries).

RESEARCH AND DEVELOPMENT ACTIVITIES: Investigation to determine the extent of the basic knowledge of teachers and students in the areas of fire safety.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Phillips, A. W.	Burns (Injuries)	(617) 742-1609

STAFF: Full-time - professional 1, nonprofessional 1, total 2; part-time - professional 0, nonprofessional 35, total 35.

INTERNAL PUBLICATIONS: Handbooks/manuals; periodicals/journals.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; standards and specifications; statistical compilations; total number of titles approximately 100.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

SOCIETY FOR THE ADVANCEMENT OF MATERIAL AND PROCESS ENGINEERING (SAMPE)

ADDRESS: 668 South Azusa Avenue
Box 613
Azusa, CA
91702

TELEPHONE: (213) 334-1810

DIRECTOR: Smith, M.

YEAR INFORMATION SOURCE BEGAN: 1943

MISSION: To advance material-and-process technology for aerospace and other industries and to assist in communicating technical information concerning material and process technology.

SUBJECT SCOPE: Missile technology; Propulsion engines and fuels; Materials; Space technology; Composite materials; Metals; Adhesives and seals; Coatings, colorants and finishes; Aeronautics; Electronics and electrical engineering.

MAJOR SUBJECT TERMS: Aeronautics; Aerospace engineering; Materials; Missiles; Propulsion; Electronics; Composite materials.

RESEARCH AND DEVELOPMENT ACTIVITIES: Collection, compilation and dissemination of technical papers and information presented at SAMPE's Annual Meetings.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Smith, M.	Materials; Composite Materials	(213) 334-1810

STAFF: Full-time - professional 2, nonprofessional 3, total 5; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Books; technical reports; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies.

HOLDINGS: Books; periodicals; total number of titles 100.

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information; referrals.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community; immediate staff or members.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

STANFORD RESEARCH INST., TECH. INFORM. SERV. ON FIRE RELATED LITERATURE

ADDRESS: Stanford Research Institute
Menlo Park, CA
94025

TELEPHONE: (415) 326-6200 ext 2979

DIRECTOR: Fishman, N.

YEAR INFORMATION SOURCE BEGAN: 1971

MISSION: To collect, store, and retrieve specialized literature covering fire retardance, fire behavior and related polymer information for the availability of industry and government.

SUBJECT SCOPE: Chemistry; Combustion and ignition; Plastics; Fibers and textiles; Rubbers; Wood and paper products; Coatings, colorings and finishes; Fire, explosion and detonations; Composite materials.

MAJOR SUBJECT TERMS: Chemistry; Plastics; Fire prevention; Fire resistant materials; Information retrieval; Fires; Fire hazards; Combustion; Adhesives; Instruments; Smoke; Toxicity.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Wright, R.	Chemistry	(415) 326-6200 ext 3734

INTERNAL PUBLICATIONS: Indexes; reference lists/bibliographies.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; total number of titles 6,400; range of years of total 1930-1972.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; prior art/patent searches; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation; custom abstracting and indexing services.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Not available.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

STANFORD RESEARCH INST., TOXICOLOGY DEPARTMENT (SRI)

ADDRESS:

Menlo Park, CA
94025

TELEPHONE: (415) 326-6200

DIRECTOR: Newell, G. W.

YEAR INFORMATION SOURCE BEGAN: 1946

MISSION: A nonprofit problem-solving organization that performs basic and applied research under contract for clients in business, industry and government in the United States and 65 other countries.

SUBJECT SCOPE: Toxicology; Dangerous materials; Microbiology.

MAJOR SUBJECT TERMS: Toxicity; Hazardous materials.

RESEARCH AND DEVELOPMENT ACTIVITIES: Oral, skin and eye toxicological evaluations of rocket propellant fuels, and inhalation studies of respiratory irritants.

SPECIAL SCOPE FEATURES: Subacute and chronic toxicological investigations are undertaken when information is needed about the safety of a material that may be repeatedly ingested, such as a drug, environmental component, agricultural pesticide, or food residue. The aquatic laboratory of the toxicology department also offers research capabilities in the fields of aquatic biology and water pollution.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Newell, G.	Chemistry; Toxicity	(415) 326-6200 ext 3386
Liu, D.	Toxicity	(415) 326-6200 ext 2319
Sasmore, D.	Pathology	(415) 326-6200 ext 4461

STAFF: Full-time - professional 24, nonprofessional 2, total 26; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Technical reports; conference papers.

HOLDINGS: Books; reports and reprints; periodicals.

REFERENCE AND QUERY SERVICES: Selective dissemination of information; analytical studies; advisory and consulting services; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Interlibrary loans; reproduction/publication services.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy; microfilm copy; microfiche copy.

USER QUALIFICATIONS: General technology community.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

STANFORD UNIV., CLINICAL PSYCHOPHARMACOLOGY AND PSYCHOPHYSIOLOGY LABORATORY

ADDRESS: Stanford University
Palo Alto, CA
94304

TELEPHONE: (415) 497-5158

DIRECTOR: Tinklenberg, J. R.

MISSION: To study the physiological and psychological effects of drugs and alcohol.

SUBJECT SCOPE: Man-machine hazards; Physiology; Clinical medicine; Psychology; Stress physiology.

MAJOR SUBJECT TERMS: Physiology; Physiological hazards; Psychology.

RESEARCH AND DEVELOPMENT ACTIVITIES: Projects include studying the effects of cannabis and alcohol on human psychology, cognition, memory and physiology.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext.(x)</u>
Tinklenberg, J. R.	Physiology; Psychology; Physiological Hazards	(415) 497-5158

DECEMBER 1975

SUPERCONDUCTIVE MATERIALS DATA CENTER (SMDC)

ADDRESS: General Electric Research and Development Center
P.O. Box 8
Schenectady, NY
12301

TELEPHONE: (518) 346-8771 ext 6430

DIRECTOR: Roberts, B. W.

PARENT-SPONSOR-HOST AFFILIATION: General Electric Company; National Bureau of Standards

YEAR INFORMATION SOURCE BEGAN: 1965

MISSION: To collect, collate and disseminate information on superconductive materials and to evolve standard values of important parameters for these materials.

SUBJECT SCOPE: Cryogenic safety; Crystallography.

MAJOR SUBJECT TERMS: Superconductors; Thermodynamics; Crystals; Information retrieval; Standards; Materials.

RESEARCH AND DEVELOPMENT ACTIVITIES: A comprehensive report including all accumulated data is planned for publication by the National Bureau of Standards (parent organization) for 1976.

SPECIAL SCOPE FEATURES: Data compiled on superconductive materials include critical temperatures, critical magnetic fields, crystallographic description, source of data, critical magnetic field superconductors, presence of thermodynamic parameter data, and data on non-superconductors when specifically studied.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Roberts, B. W.	Superconductors; Materials	(518) 346-8771 ext 6430

STAFF: Full-time - professional 0, nonprofessional 0, total 0; part-time - professional 2, nonprofessional 1, total 3.

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports.

HOLDINGS: Standards and specifications (specialized collection); total number of titles 2,000.

DATA BANK RESOURCES:

Name or Acronym	Description of Contents	Range of Years	No. of Records
--	Superconductor Specifications	1911-present	12,000

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; analytical studies; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

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SYSTEMS SAFETY SOCIETY (SSS)

ADDRESS: P.O. Box 165
Washington, DC
20044

TELEPHONE: (202)426-8929

DIRECTOR: Harris, R. E.

YEAR INFORMATION SOURCE BEGAN: 1963

MISSION: A non-profit professional association committed to the advancement of the state of the art of system safety, the technological understanding of system safety and the dissemination of new knowledge to all interested groups and individuals.

SUBJECT SCOPE: Safety analysis; Cryogenic safety; Man-machine hazards.

MAJOR SUBJECT TERMS: Systems engineering; Information retrieval; Cryogenic fluid safety; Safety engineering.

RESEARCH AND DEVELOPMENT ACTIVITIES: The compilation of a library of tapes on system-safety-related topics.

SPECIAL SCOPE FEATURES: The Society through its membership of over 700 is engaged in activities to promote and benefit the safety profession and professional.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Horton, E. E.	Transportation	(202) 426-2311

INTERNAL PUBLICATIONS: Periodicals/journals; newsletters/trade literature.

REFERENCE AND QUERY SERVICES: questions answered individually; referrals.

OTHER SERVICES: Conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

TECHNICAL ASSISTANCE DATA SYSTEM (TADS)

ADDRESS: Spill Prevention and Control Branch
 Oil & Special Materials Control Division (WH-548)
 EPA - 401 M Street, S.W.
 Washington, DC
 20460

TELEPHONE: (202) 245-3057 or (710) 822-9269

DIRECTOR: Wright, J. H.

PARENT-SPONSOR-HOST AFFILIATION: Environmental Protection Agency; Informatics, Inc.

YEAR INFORMATION SOURCE BEGAN: 1971

MISSION: To provide EPA regions and others with readily accessible information that is necessary in combatting hazardous substance discharges.

SUBJECT SCOPE: Dangerous materials.

MAJOR SUBJECT TERMS: Waste disposal; Information retrieval; Hazardous materials; Chemical hazards; Oils.

SPECIAL SCOPE FEATURES: A record, consisting of up to 120 data fields, is provided on each material's name entered into the system. Physical, chemical, manufacturing, transportation, toxicity and emergency data are included. System permits user to identify unknown pollutants using known characteristics, such as color, odor, etc., as observed on site of hazardous material spill.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext.(x)
Wright, J. H.	Information Retrieval	(202) 245-3057

STAFF: Full-time - professional 5, nonprofessional 1, total 6; part-time - professional 0, nonprofessional 0, total 0.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides; range of years of total 1960-.

DATA BANK RESOURCES:

Name or Acronym	Description of Contents	Range of Years	No. of Records
	Environmental and countermeasure data on hazardous chemicals, compounds and mixtures.		875

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; referrals.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Microfiche copy.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

U. S. ARMY AGENCY FOR AVIATION SAFETY (USAAAVS)

ADDRESS: US Army Agency for Aviation Safety
Fort Rucker, AL
36362

TELEPHONE: (205) 255-6510

DIRECTOR: Paulson, N. W., COL

PARENT-SPONSOR-HOST AFFILIATION: Department of the Army

YEAR INFORMATION SOURCE BEGAN: 1968

MISSION: Proponent for U. S. Army Aircraft Accident Prevention policy; conduct research and analysis of aviation mishap data to determine cause and effects and make recommendations that will eliminate or reduce causes; maintain an Aviation Safety Education Program; maintain and operate an automated aircraft mishap Data Management Information System.

SUBJECT SCOPE: Human factors engineering; Air facilities; Aircraft problems; Mathematics and statistics.

MAJOR SUBJECT TERMS: Aircraft safety; Aircraft problems; Airports; Air traffic control; Accident prevention; Human factors engineering; Fire fighting; Aeronautics; Fuels; Accident investigation.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts applied research concerning the human factor in aviation mishaps. Conducts research concerning aircraft crashworthy structural improvements. Research approach is multivariate synthesis with two prongs: development and application of computerized analytic techniques to aviation accident data and use of results to improve the performance and management of aviation personnel and the design, maintainance, and utilization of aircraft systems.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Paulson, N. W., COL	Aircraft Safety	(205) 255-6510
Kalajian, S. P., COL	Accident Investigation; Aircraft Safety	(205) 255-4402
Strange, L. C., COL	Education	(205) 255-4812
Nelson, R. D., LTC	Research and Development	(205) 255-6410
Hafers, E. R., LTC	Information Retrieval	(205) 255-4200

INTERNAL PUBLICATIONS: Technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; reference lists/bibliographies; standards and specifications.

HOLDINGS: Abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; referrals.

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations; government employees; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

U.S. ARMY FUELS AND LUBRICANTS RESEARCH LABORATORY (USAFRLRL)

ADDRESS: 8500 Culebra Road
PO Drawer 28510
San Antonio, TX
78284

TELEPHONE: (512) 684-5111

DIRECTOR: Quillan, R. D.

PARENT-SPONSOR-HOST AFFILIATION: Southwest Research Inst.; Dept. of the Army

MISSION: To conduct research for the Army in the fields of fuel and fluid fire safety and fuel combustion.

SUBJECT SCOPE: Propellants, fuels, lubricants, hydraulic fluids safety; Jet and gas turbine engines.

MAJOR SUBJECT TERMS: Oils; Engines; Fuels; Hydraulics; Lubricants; Aircraft fuels; Combustion.

RESEARCH AND DEVELOPMENT ACTIVITIES: Recent research topics include synthetic engine oils, cooling diesel engines, antimist aircraft turbine engine fuels, fuel volatility effects on turbine combustor performance and hydrocarbon type analysis of gasoline.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Wright, B. R.	Aircraft Fuels; Engines; Fuels	(512) 684-5111 ext 2585
Stavinoha, L. L.	Hydrocarbon Fuels	(512) 684-5111
Weatherford, W. D.	Aircraft Fuels; Engines; Fuels	(512) 684-5111
Lestz, S. J.	Engines; Oils	(512) 684-5111
Wimer, W. W.	Fuels; Fire Prevention	(512) 684-5111

DECEMBER 1975

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UNDERGROUND EXCAVATION AND ROCK PROPERTIES INFORMATION CENTER (UEPIC)

ADDRESS: Center for Information and Numerical Data Analysis and Synthesis
Purdue University
2595 Yeager Road
West Lafayette, IN
47906

TELEPHONE: (317)463-1581

DIRECTOR: Touloukian, Y. S.

PARENT-SPONSOR-HOST AFFILIATION: Purdue University; National Science Foundation

YEAR INFORMATION SOURCE BEGAN: 1972

MISSION: To establish a data bank on mechanical, thermophysical, electrical, and magnetic properties of rocks and minerals which includes results of both in-situ and laboratory tests. Particularly important is the inclusion of adequate sample characterization and test conditions to permit data evaluation and correlation and the preparation of reference data tables. To collect extensive information on methods of excavation for tunnels and underground openings. To collect all information related to the shock effects associated with nuclear/high explosive detonations.

SUBJECT SCOPE: Geology and mineralogy; Geomagnetism; Mining engineering; Magnetic detection; Materials; Thermodynamics.

MAJOR SUBJECT TERMS: Magnetic properties; Rocks; Thermodynamics; Nuclear explosions; Mechanical properties; Mining; Shock; Electromagnetic radiation.

RESEARCH AND DEVELOPMENT ACTIVITIES: UEPPIC performs theoretical and analytical research, and the associated Property Research Laboratory (PRL) performs experimental research.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Judd, W. R.	Rocks; Mechanical Properties	(317) 494-8692
Von Frese, R. R. B.	Nuclear Explosions	(317) 463-1581
Touloukian, Y. S.	Physical Properties	(317) 463-1581
Ho, C. Y.	Physical Properties	(317) 463-1581
Li, H. H.	Magnetic Properties	(317) 463-1581
Sharer, W. H.	Metallurgy; Information Retrieval	(317) 463-1581
Phillips, J.	Computer Programming	(317) 463-1581

STAFF: Full-time - professional 1, nonprofessional 1, total 2; part-time - professional 6, nonprofessional 2, total 8.

INTERNAL PUBLICATIONS: Books; handbooks/manuals; technical reports; statistical compilations; newsletters/trade literature; graphics/tabular materials; magnetic tape bibliographic data.

HOLDINGS: Reports and reprints; total number of titles 1,800; range of years of total 1893-present.

DATA BANK RESOURCES:

Name or Acronym	Description of Contents	Range of Years	No. of Records
	Materials Directory & Synonyms	1893-	150
	Bibliographic Citations	1893-	1,800

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; analytical studies; advisory and consulting services; scientific or statistical data retrieval/compilation; translations.

OTHER SERVICES: Interlibrary loans; reproduction/publication services; courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

UNIV. OF ARKANSAS, CHEMICAL ENGINEERING DEPARTMENT

ADDRESS: University of Arkansas
Fayetteville, AR
72701

TELEPHONE: (501) 575-4951

DIRECTOR: Havens, J. A.

YEAR INFORMATION SOURCE BEGAN: 1970

MISSION: Development of test methods and procedures for assessing hazard potential of chemicals in the manufacturing and transportation environment.

SUBJECT SCOPE: Cryogenic safety; Dangerous materials; Fuels; Fire, explosion and detonations.

MAJOR SUBJECT TERMS: Cryogenic fluid safety; Fires; Thermodynamics; Chemical hazards; Hazardous materials; Explosions; Compressed gas; Liquified gases.

RESEARCH AND DEVELOPMENT ACTIVITIES: Research in thermal decomposition and ignition phenomena, hazards associated with liquified natural gas handling and transportation. Active consultant in fire and flammability related areas.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Havens, J. A.	Chemical Engineering	(501) 575-4951

DECEMBER 1975

UNIV. OF CALIFORNIA, DEPARTMENT OF CIVIL ENGINEERING

ADDRESS: The Division of Structural Engineering and Structural Mechanics
 Department of Civil Engineering
 University of California
 Berkeley, CA
 94720

TELEPHONE: (415) 642-6463

DIRECTOR: Wilson, E. L.

MISSION: As an integral unit of the College of Engineering at the University of California at Berkeley, performs basic research on structural components and materials under both static and dynamic loading.

SUBJECT SCOPE: Seismology; Structural engineering; Construction equipment, materials and supplies.

MAJOR SUBJECT TERMS: Structural engineering; Structural materials; Earth sciences; Fires.

RESEARCH AND DEVELOPMENT ACTIVITIES: Structural materials; mechanics of structural failure; structural analysis and design; mechanics of deformable bodies and experimental stress analysis; behavior of structures in plastic range; use of computers in structural analysis; fire research on structural assemblies.

SPECIAL SCOPE FEATURES: Operates National Information Service for Earthquake Engineering (NISEE).

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Polivka, M.	Structural Engineering	(415) 642-3555

STAFF: Full-time - professional 30, nonprofessional 5, total 35; part-time - professional 40, nonprofessional 0, total 40.

INTERNAL PUBLICATIONS: Technical reports; periodicals/journals; conference papers.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services.

OTHER SERVICES: On-site use of collection; courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

UNIV. OF CALIFORNIA, FIRE RESEARCH GROUP (UCB-FRG)

ADDRESS: 543 Davis Hall
University of California
Berkeley, CA
94720

TELEPHONE: (415) 642-5308

DIRECTOR: Williamson, R. B.

YEAR INFORMATION SOURCE BEGAN: 1968

MISSION: The purpose of this project is the continuing study of fire safety and the concomitant development of a rational basis for the design of the safety of buildings, aircraft and their contents.

SUBJECT SCOPE: Safety analysis; Fire, explosion and detonation; Structural materials limitations (metallic and non-metallic); Safety engineering; Civil engineering; Plastics; Physics; Aircraft; Laboratories, test facilities and test equipment.

MAJOR SUBJECT TERMS: Industrial safety; Fires; Fire prevention; Combustion; Mechanical engineering; Information retrieval; Physics; Structural materials.

RESEARCH AND DEVELOPMENT ACTIVITIES: Research areas include the human response to the fire process, fire radiation, polymer combustion, fire modelling, structural response to fire, and the development of a fire research information system (FRIS).

SPECIAL SCOPE FEATURES: A testing laboratory is operated where standard ASTM fire tests are conducted and new tests developed. Building code regulation of fire safety is studied. New test methods for aircraft materials safety are being developed. Practical methods for design engineers' use are developed in two areas: prediction of fire temperature histories, and structural response to fire. Flame spread is studied in depth. Both theory and new test methods are studied. Associated with the research objectives of the FRG has been the development of probabilistic computer simulated models for the behavioral impact of carbon-monoxide inhalation, and the development of a methodology for the description and analysis of fire and fire safety including symbols and nomenclature.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Williamson, R. B.	Physics	(415) 642-5308
Bender, R.	Architecture	(415) 642-5308
Bresler, B.	Civil Engineering	(415) 642-5308
Crossman, E. R.	Engineering Management	(415) 642-5308
Pagni, P. J.	Mechanical Engineering	(415) 642-5308
Sawyer, R. F.	Mechanical Engineering	(415) 642-5308
Tien, C. L.	Mechanical Engineering	(415) 642-5308
Grant, C. E.	Information Retrieval	(415) 642-5308
Babruskas, V.	Fire Protection; Fire Prevention	(415) 458-6000 ext. 1277

STAFF: Full-time - professional 7, nonprofessional 37, total 44; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Technical reports; conference papers.

HOLDINGS: Books 120; abstracts/indexes; reports and reprints 2,000; periodicals; standards and specifications; total number of titles ca. 3600.

REFERENCE AND QUERY SERVICES: Questions answered individually; referrals.

OTHER SERVICES: On-site use of collection; interlibrary loans; courses/workshops.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: Immediate staff or members.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: All services free to qualified users.

DECEMBER 1975

UNIV. OF MICHIGAN, RADIOLOGICAL HEALTH PROGRAM

ADDRESS: School of Public Health
The University of Michigan
Ann Arbor, MI
48104

TELEPHONE: (313) 764-0523

DIRECTOR: Whipple, G. H.

YEAR INFORMATION SOURCE BEGAN: 1957

MISSION: Teaching, research and service in radiation protection.

SUBJECT SCOPE: Dangerous materials; Nuclear safety; Dangerous industrial radiation; Personnel selection, training and evaluation; Radioactive wastes and fission products; Radiobiology.

MAJOR SUBJECT TERMS: Reactor safety; Radioactive wastes; Nuclear radiation; Environments; Nuclear power plants; Radiation effects; Waste disposal; Education.

RESEARCH AND DEVELOPMENT ACTIVITIES: Prediction, measurement and control of radiation exposure from nuclear power plants.

SPECIAL SCOPE FEATURES: Professional education in radiological health.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext.(x)
Jacobson, A. P.	Radiation Effects	(313) 764-0523
Plato, P. A.	Radioactive Wastes; Waste Disposal	(313) 764-0523
Whipple, G. H.	Radiation Effects; Radioactive Wastes	(313) 764-0523

STAFF: Full-time - professional 3, nonprofessional 0, total 3; part-time - professional 0, nonprofessional 0, total 0.

HOLDINGS: Books; reports and reprints; periodicals.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; state-of-the-art reviews; analytical studies; advisory and consulting services.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Not available.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

UNIV. OF PITTSBURGH, DEPT. OF IND. ENVIRON. HEALTH SCIENCES

ADDRESS: Graduate School of Public Health
University of Pittsburgh
Pittsburgh, PA
15261

TELEPHONE: (412) 624-3048, 624-3040

DIRECTOR: Magee, P. C.

YEAR INFORMATION SOURCE BEGAN: 1951

MISSION: The quest for knowledge in human environmental and work physiology and ergonomics, and the dissemination of this information to students here and to the scientific and nonscientific communities at large.

SUBJECT SCOPE: Environmental biology; Physiology; Stress physiology; Human factors engineering; Biology.

MAJOR SUBJECT TERMS: Physiology; Physiological hazards; Human factors engineering.

RESEARCH AND DEVELOPMENT ACTIVITIES: Current research includes epidemiologic study of long-term effects of heat stress; single reading heat stress meter; safe upper limit of heat stress under a variety of combinations of air temperature, humidity, wind speed, radiant heat, metabolic energy expenditure and clothing worn.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Magee, P. C.	Environments; Physiology; Human Factors Engineering	(412) 624-3048, 624-3040

HOLDINGS: Books; reports and reprints; periodicals; total number of titles approx. 10,000; range of years of total 1935-present.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services.

USER QUALIFICATIONS: Ad hoc permission.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

ORIGINAL PAGE IS
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UNIVERSITY OF TENNESSEE, SPACE INSTITUTE (UTSI)

ADDRESS: University of Tennessee
Space Institute
Tullahoma, TN
37388

TELEPHONE: (615) 455-0631

DIRECTOR: Goethert, B. H.

YEAR INFORMATION SOURCE BEGAN: 1964

MISSION: The University of Tennessee Space Institute conducts research in all areas of advanced science and engineering with emphasis on aeronautics and astronautical science. It offers both full and part time graduate programs and has established a full range of continuing education programs.

SUBJECT SCOPE: Composite materials; Structural engineering; Fluid mechanics; Aeronautics; Mathematics; Physics; Electronics and electrical engineering.

MAJOR SUBJECT TERMS: Fatigue (materials); Physics; Aerospace engineering; Mathematics; Mechanical engineering; Metallurgy; Structural engineering; Structural failure; Acoustics; Noise (sound); Composite materials.

RESEARCH AND DEVELOPMENT ACTIVITIES: Current research areas include fluid dynamics, ground wind, transonic flow, sonic boom, magnetohydrodynamic power generation, aeroacoustics, composite materials, spectroscopy, remote sensing, and electro optics.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Dicks, J. B.	Energy	(615) 455-0631 ext 221
Frost, W.	Mechanical Engineering	(615) 455-0631 ext 216
Huebschman	Electrical/Electronic Engineering	(615) 455-0631 ext 241
Mason, A. A.	Physics	(615) 455-0631 ext 216
Maus, J. R.	Aerospace Engineering	(615) 455-0631 ext 252
Peddy, K. C.	Mathematics	(615) 455-0631 ext 233
Templemeyer, K. E.	Engineering	(615) 455-0631 ext 223
Wright	Metallurgy	(615) 455-0631 ext 216

STAFF: Full-time - professional 34, nonprofessional 10, total 44; part-time - professional 25, nonprofessional 0, total 25.

INTERNAL PUBLICATIONS: Technical reports; periodicals/journals.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services; referrals.

OTHER SERVICES: On-site use of collection; courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Not available.

USER QUALIFICATIONS: Immediate staff or members; staff or members of affiliated organizations; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

UNIVERSITY OF UTAH, FLAMMABILITY RESEARCH CENTER (FRC)

ADDRESS: University of Utah
Salt Lake City, UT
84112

TELEPHONE: (801) 581-8431

DIRECTOR: Einhorn, I. N.

MISSION: Study in the following areas: the physiological and toxicological aspects of combustion; the mechanism of fire retardation of materials; the mechanism of thermal decomposition and flammability characteristics of materials; the etiology of fire; property-structure relationships in polymeric materials; fire injuries.

SUBJECT SCOPE: Fire, explosion and detonations; Safety analysis; Aircraft; Toxicology; Plastics; Human factors engineering; Laboratories, test facilities and test equipment; Space technology; Physiology.

MAJOR SUBJECT TERMS: Safety procedures; Safety analysis; Fire hazards; Fires; Fire prevention; Fire resistant materials; Safety engineering; Spacecraft; Combustion; Plastics; Physiology; Toxicity; Human factors engineering; Psychology; Aircraft safety; Fabrication; Structural materials; Aerospace engineering.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performs fire injury studies in Utah, fire safety studies for Ames Research Center and other NASA centers, development of analytical methodology, development of behavioral study methodology.

SPECIAL SCOPE FEATURES: Physiological and toxicological aspects of combustion in areas of materials, built environment, aircraft, and naval vessel safety.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Einhorn, I. N.	Polymers; Fires	(801) 581-8431
Seader, J. D.	Chemical Engineering	(801) 581-6585
Mickelson, R. W.	Polymers; Kinetics	(801) 581-8178
Jacobs, H. R.	Heat Transfer	(801) 581-7106
Baer, A. D.	Heating Rate	(801) 581-6918
Ryan, N. W.	Flame Propagation	(801) 581-7735
Newman, M. S.	Fires; Accident Investigation	(801) 581-8431

STAFF: Full-time - professional 29, nonprofessional 20, total 49; part-time - professional 5, nonprofessional 3, total 8.

INTERNAL PUBLICATIONS: Technical reports; periodicals/journals; conference papers; reference lists/bibliographies.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services; referrals.

OTHER SERVICES: Conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

UNIV. OF VIRGINIA, DEPARTMENT OF CIVIL ENGINEERING

ADDRESS: University of Virginia
Charlottesville, VA
22901

TELEPHONE: (804) 924-7464

DIRECTOR: Hoel, L. A.

YEAR INFORMATION SOURCE BEGAN: 1919

MISSION: The Department of Civil Engineering provides research and graduate programs in the following areas: structural engineering; and structural mechanics, transportation systems, environmental engineering, and soil mechanics.

SUBJECT SCOPE: Construction equipment, materials and supplies; Civil engineering; Structural engineering; Composite materials.

MAJOR SUBJECT TERMS: Air pollution; Waste disposal; Structural materials; Materials; Materials tests; Civil engineering; Structural engineering.

RESEARCH AND DEVELOPMENT ACTIVITIES: Structures: dynamic stability; structural optimization; dynamic response of structures; numerical techniques in structural mechanics. Transportation: analysis; planning; operations; implementation of multiurban and intercity facilities. Environmental: water supply; waste treatment; water pollution control; air pollution; radiological health. Soil mechanics: electron microscope studies of soil structure, effect of repeated loads on soil structure and stability.

SPECIAL SCOPE FEATURES: Special facilities available include a structural testing laboratory capable of exerting high-capacity fatigue loads.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Barton, F. W.	Structural Engineering	(804) 924-7464
Burke, R.	Environments	(804) 924-7464
Demetsky, M. J.	Transportation; Systems Engineering	(804) 924-7464
Ecnols, C. E.	Construction; Legal Liability	(804) 924-7464
Eppink, R. T.	Structural Engineering	(804) 924-7464
Gaylord, C. N.	Structural Engineering	(804) 924-7464
Hoel, L. A.	Transportation	(804) 924-7464
Jennings, R. L.	Structural Engineering	(804) 924-7464
Kinnier, H. L.	Structural Engineering	(804) 924-7464
Larew, H. G.	Earth Sciences	(804) 924-7464
McCormick, F. C.	Structural Materials	(804) 924-7464
Morris, D.	Systems Engineering; Structural Engineering	(804) 924-7464
Parker, C. E.	Waste Disposal	(804) 924-7464

STAFF: Full-time - professional 13, nonprofessional 3, total 16; part-time - professional 0, nonprofessional 1, total 1.

INTERNAL PUBLICATIONS: Technical reports; periodicals/journals.

HOLDINGS: Books; reports and reprints; periodicals.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services; referrals.

OTHER SERVICES: Reproduction/publication services; courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community; immediate staff or members; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

UNIV. OF VIRGINIA, DEPARTMENT OF ELECTRICAL ENGINEERING

ADDRESS: University of Virginia
Charlottesville, VA
22901

TELEPHONE: (804) 924-3960

DIRECTOR: Warfield, J. N.

YEAR INFORMATION SOURCE BEGAN: 1819

MISSION: Through research and teaching to introduce students to new and developing areas or electrical engineering which hold the promise of making contributions to society.

SUBJECT SCOPE: Electronics and electrical engineering; Computers; Astronomy; Optical detection; Communications; Aircraft problems.

MAJOR SUBJECT TERMS: Information retrieval; Astronomy; Electronics; Computers; Landing aids; Flight paths; Microwaves; Radiation effects; Electrical/electronic engineering; Sensors.

RESEARCH AND DEVELOPMENT ACTIVITIES: Current R&D in the areas of: microwave devices, control and information systems engineering, process control, frequency synthesizers, electrical power systems, optimal landing flight path determination, discrete optical sensors, radiation effects on a single crystal gas, and system modeling.

SPECIAL SCOPE FEATURES: Special facilities includes a fully equipped computer systems laboratory and a well-equipped solid state device research laboratory.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Mattauch, R. J.	Electrical/Electronic Engineering	(804) 924-3564
Parrish, E. A.	Electrical/Electronic Engineering	(804) 924-3042
McVey, E. S.	Sensors; Electrical/Electronic Engineering	(804) 924-3042
Cook, G.	Sensors; Electrical/Electronic Engineering	(804) 924-3042
McAlpine, G. A.	Microwaves	(804) 924-3434 or (804) 924-7003

STAFF: Full-time - professional 11, nonprofessional 11, total 22; part-time - professional 3, nonprofessional 0, total 3.

INTERNAL PUBLICATIONS: Technical reports; periodicals/journals.

HOLDINGS: Books; reports and reprints; periodicals.

REFERENCE AND QUERY SERVICES: questions answered individually; analytical studies; advisory and consulting services; referrals.

OTHER SERVICES: Reproduction/publication services; courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community; staff or members of affiliated organizations; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

UNIV. OF VIRGINIA, DEPARTMENT OF ENGINEERING SCIENCE AND SYSTEMS

ADDRESS: University of Virginia
Charlottesville, VA
22901

TELEPHONE: (804) 924-3292

DIRECTOR: Scott, J. E.

YEAR INFORMATION SOURCE BEGAN: 1819

MISSION: The Department of Engineering Science and Systems is responsible for graduate programs and research in the following areas: Aerospace Engineering, Engineering Physics, Systems Engineering.

SUBJECT SCOPE: Crystallography; Structural engineering; Cryogenic safety; Fluid mechanics; Space technology; Physics; Materials; Mechanics of structural failure; Air facilities.

MAJOR SUBJECT TERMS: Lasers; Fluid mechanics; Aeronautics; Aerospace engineering; Superconductors; Cryogenic fluid safety; Crystals; Materials; Structural failure; Plastics; X-rays; Fatigue (materials); Transportation; Structural materials; Railroads.

RESEARCH AND DEVELOPMENT ACTIVITIES: Areas of research include fluid dynamics, flight mechanics, space technology applications, structures, cryogenics, solid state electronics, laser applications, and transportation research.

SPECIAL SCOPE FEATURES: Specialized research facilities include: low-speed wind tunnels for high-lift investigations of the atmospheric boundary layers of the earth and other planets; superconducting electromagnetic wind tunnel balance system particularly suited for dynamic stability research.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Fischer, S. S.	Aerodynamics	(804) 924-3292
Haviland, J. K.	Aeronautics; Aerospace Engineering	(804) 924-3292
Jacobsen, I. D.	Control Systems	(804) 924-3292
Morton, J. B.	Fluid Mechanics	(804) 924-3292
Pilkey, W. D.	Mechanical Engineering	(804) 924-3292
Jenkins, J. L.	Aerospace Engineering	(804) 924-3292
Zapata, R. N.	Superconductors	(804) 924-3292

STAFF: Full-time - professional 33, nonprofessional 37, total 70; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Technical reports; periodicals/journals.

HOLDINGS: Books; reports and reprints; periodicals; total number of titles 46,000.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services; referrals.

OTHER SERVICES: Reproduction/publication services; courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community; immediate staff or members; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

UNIV. OF VIRGINIA, DEPARTMENT OF MATERIAL SCIENCES

ADDRESS: University of Virginia
Charlottesville, VA
22901

TELEPHONE: (804) 924-3264

DIRECTOR: Wilsdorf, H. G. F.

YEAR INFORMATION SOURCE BEGAN: 1961

MISSION: To offer graduate training and research programs in the study of the structure and properties of materials.

SUBJECT SCOPE: Crystallography; Metals; Physics; Computers; Biology; Plastics; Materials; Mechanics of structural failure; Composite materials.

MAJOR SUBJECT TERMS: Crystals; Physics; Failure; Fatigue (materials); Metallurgy; Materials; Plastics; Molecular structure.

RESEARCH AND DEVELOPMENT ACTIVITIES: Research topics include crystal structure, crystal defects, computer applications, physical metallurgy, polymer physics, surface and interface studies, and biomaterials.

SPECIAL SCOPE FEATURES: Special facilities available include a structural testing laboratory capable of exerting high-capacity fatigue loads.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Wilsdorf, H. G. F.	Metallurgy	(804) 924-3264
Wawner, R. E., Jr.	Composite Materials	(804) 924-3264
Jesser, W. A.	Physics; Metallurgy	(804) 924-3264
Kuhlman-Wilsdorf, G.	Crystals	(804) 924-3264
Barker, R. E.	Polymers	(804) 924-3264

INTERNAL PUBLICATIONS: Technical reports; periodicals/journals.

HOLDINGS: Books; reports and reprints; periodicals.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services; referrals.

OTHER SERVICES: Reproduction/publication services; courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community; immediate staff or members; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

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UNIV. OF WASHINGTON. DEPARTMENT OF MECHANICAL ENGINEERING

ADDRESS: University of Washington
 Department of Mechanical Engineering FU-10
 Seattle, WA
 98195

TELEPHONE: (206) 543-5488

DIRECTOR: Childs, H. E.

YEAR INFORMATION SOURCE BEGAN: 1965

MISSION: Provides basic and applied research in materials sciences covering life prediction of materials, fracture toughness, fracture mechanics, failure analysis and design against failure.

SUBJECT SCOPE: Mechanics of structural failure; Structural materials limitations (metallic and nonmetallic); Structural engineering.

MAJOR SUBJECT TERMS: Failure; Fatigue (materials); Mechanical engineering; Fracture mechanics.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performing research on two- and three-dimensional fracture mechanics and two-dimensional fracture dynamics.

SPECIAL SCOPE FEATURES: Expertise in safety technology in the areas of failure analysis of actual airplanes.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Emery, A. F.	Fracture Mechanics	(206) 543-5338
Kobayashi, A. S.	Fracture Mechanics	(206) 543-5488
Taggart, E.	Failure; Materials	(206) 543-5238
Sandwich, C. J.	Failure; Materials	(206) 543-1263

STAFF: Full-time - professional 4, nonprofessional 0, total 4; part-time - professional 4, nonprofessional 0, total 4.

INTERNAL PUBLICATIONS: Conference papers; contract reports.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides; total number of titles 60,000.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; translations Japanese-English.

OTHER SERVICES: On-site use of collection; courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

UNIV. OF WISCONSIN, ENGINEERING EXPERIMENT STATION

ADDRESS: University of Wisconsin
Engineering Experiment Station
1500 Johnson Drive
Madison, WI
53706

TELEPHONE: (608) 263-1610

DIRECTOR: Coberly, C. A.

YEAR INFORMATION SOURCE BEGAN: 1894

MISSION: To promote engineering education by encouraging, fostering and conducting scientific investigations and industrial research; by training and developing persons for the conduct of such investigations and research; and by acquiring and disseminating knowledge in relation to industrial and engineering problems.

SUBJECT SCOPE: Chemical engineering; Plastics; Mechanical, industrial, civil and marine engineering; Fluid mechanics; Soil mechanics; Electronics and electrical engineering; Mechanics of structural failure; Structural materials limitations; Composite materials; Metals; Human factors engineering; Aeronautics; Mining engineering; Nuclear science and technology; Fire, explosion and detonation.

MAJOR SUBJECT TERMS: Chemical engineering; Mechanical engineering; Electronics; Fluid mechanics; Structural engineering; Human factors engineering; Aeronautics; Aerospace engineering; Stress analysis; Combustion; Fatigue (materials); Nuclear engineering; Vibration; Failure; Civil engineering; Mining.

RESEARCH AND DEVELOPMENT ACTIVITIES: Areas of relevant research include: Aerospace Mechanics, Physical Properties of Structural Materials, Vibrations and Wave Propagation, Human Factors Engineering, Electrical Engineering, Mechanical Engineering, and Nuclear Engineering.

SPECIAL SCOPE FEATURES: Facilities available include: Cement Laboratory, Concrete Laboratory, Fatigue Laboratory, Metals Laboratory, Experimental Stress Analysis Laboratory, and Structural Laboratory.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Bowen, J. R.	Combustion; Explosions	(608) 263-2923
Peyrot, A. H.	Structural Engineering; Reliability	(608) 262-3491
Salmon, C. G.	Structural Engineering	(608) 262-3491
Wang, C. K.	Structural Engineering	(608) 262-3491
Cheng, S.	Stress Analysis	(608) 262-3991
Schlack, A. L.	Structural Engineering	(608) 262-3990
Kessel, P. G.	Dynamics; Vibrations	(608) 262-3992
Lovell, E. G.	Structural Engineering	(608) 262-3993
Sandor, B. I.	Fatigue (Materials)	(608) 262-3993

STAFF: Full-time - professional 480, nonprofessional 20, total 500; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Abstracts; technical reports; periodicals/journals; conference papers.

HOLDINGS: Books; periodicals; total number of titles 85,000.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

VALLEY FORGE SPACE CENTER, PLASTICS AND ADVANCED COMPOSITES LAB.

ADDRESS: Valley Forge Space Center
P.O. Box 8555
Philadelphia, PA
19101

TELEPHONE: (215) 962-3872

DIRECTOR: Musikant, S., Dr.

PARENT-SPONSOR-HOST AFFILIATION: General Electric Co.

YEAR INFORMATION SOURCE BEGAN: 1958

MISSION: To develop advanced materials for use in space vehicles and reentry systems.

SUBJECT SCOPE: Spacecraft technology; Space vehicle problems; Composite materials; Cryogenic safety; Plastics; Ceramics; Metallurgy; Adhesives and seals.

MAJOR SUBJECT TERMS: Spacecraft; Ceramics; Materials; Elastomers; Plastics; Composite materials.

RESEARCH AND DEVELOPMENT ACTIVITIES: Research projects include development of external ceramic insulation for the space shuttle orbiter and development of thermal protection systems.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Hiltz, A. A.	Chemistry; Plastics	(215) 962-3872
Musikant, S.	Ceramics	(215) 962-5942
Ianzilli, R.	Ceramics	(215) 926-6070
Geohardt, J.	Ceramics; Chemistry	(215) 962-1227

STAFF: Full-time - professional 10, nonprofessional 15, total 25; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; reference lists/bibliographies; standards and specifications; graphics/tabular materials; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; referrals.

OTHER SERVICES: Interlibrary loans; reproduction/publication services; courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy; microfilm copy; microfiche copy.

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations; government contractors.

USER RESTRICTIONS: None; federal security clearance; registration with DDC.

PRICING AND SERVICES CHARGES: All services free to qualified users.

DECEMBER 1975

VIRGINIA POLYTECHNIC INST., DEPT. OF ENGINEERING SCIENCE AND MECHANICS

ADDRESS: Virginia Polytechnic Institute and State University
College of Engineering
Blacksburg, VA
24061

TELEPHONE: (703) 951-6651

DIRECTOR: Frederick, D.

YEAR INFORMATION SOURCE BEGAN: 1872

MISSION: As part of the Virginia Polytechnic Institute and the State University, performs research on various aspects of behavior of composite materials for U. S. Army Office of Research and Engineering, NASA, U.S. Air Force, AEC, and VPI and SU.

SUBJECT SCOPE: Composite materials; Mechanics of structural failure; Structural materials limitations (metallic and nonmetallic); Structural engineering; Acoustics.

MAJOR SUBJECT TERMS: Nondestructive evaluation; Fatigue (materials); Failure; Materials; Materials tests; Stress analysis; Structural materials; Acoustics; Composite materials.

RESEARCH AND DEVELOPMENT ACTIVITIES: Current areas of research include: Strength of Composite Materials Composite Materials, Environmental Effects on Fiber Reinforced Composites, Failure Analysis, Fracture Mechanics, Failure of Structural Materials, Material Fatigue, Stress Analysis, Crack Initiation and Propagation, and Acoustic Emissions.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Feltsnyder, K. L.	Fatigue (Materials); Composite Materials; Nondestructive Evaluation	(703) 951-5316
Heracovich, C. T.	Composite Materials	(703) 951-5372
Heller, R. A.	Fatigue (Materials)	(703) 951-6746
Henneke, E. G.	Mechanical Properties; Composite Materials	(703) 951-5316
Stinchcomb, W. W.	Stress Analysis; Fracture Mechanics	(703) 951-6651
Brinson, H. F.	Composite Materials; Fracture Mechanics	(703) 951-6627

STAFF: Full-time - professional 30, nonprofessional 20, total 50; part-time - professional 0, nonprofessional 0, total 0.

HOLDINGS: Books; reports and reprints; periodicals; standards and specifications; graphics/tables; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Interlibrary loans; courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community; immediate staff or members; government contractors.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

VITRO LABS.

ADDRESS: Vitro Laboratories Division
14000 Georgia Avenue
Silver Spring, MD
20910

TELEPHONE: (301) 871-4791 (301) 871-7493

DIRECTOR: Schafer, W. G.

PARENT-SPONSOR-HOST AFFILIATION: Automation Industries, Inc.

YEAR INFORMATION SOURCE BEGAN: 1966

MISSION: To support the Department of the Navy's Strategic Systems Project Office in safety related activities for Fleet Ballistic Missile Weapon Systems and Strategic Weapon System. This includes the performance of studies and analyses to ensure that nuclear safety is not degraded, that the possibilities of inadvertent or unauthorized launches are eliminated, and that the possibilities of injury or death caused by incipient hazards are similarly eliminated or minimized.

SUBJECT SCOPE: Missile technology; Nuclear safety; Safety analysis; Ordnance; Information theory (coding).

MAJOR SUBJECT TERMS: Information retrieval; Safety analysis; Missiles; Launching; Systems engineering; Tests; Reactor safety.

RESEARCH AND DEVELOPMENT ACTIVITIES: R&D in the areas of Weapon System Safety including analysis of interfacing subsystems; review of documentation (procedural, description, operation, maintenance, specifications, and drawings); fault tree analyses and fault tree analysis computer programs.

SPECIAL SCOPE FEATURES: Weapons system safety, analysis of interfacing sub-systems; review of documentation (procedural, description, operation, maintenance, specifications, and drawings); fault tree analyses and fault tree analysis computer programs.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Saben, M.	Missiles; Systems Engineering	(301) 871-4793
Goldberg, S.	Missiles; Systems Engineering	(301) 871-4791
Bender, M.	Missiles; Systems Engineering	(301) 871-2248
Seaton, D.	Mathematics; Computer Programming	(301) 871-4956
Custen, L.	Missiles; Systems Engineering	(301) 871-4575

STAFF: Full-time - professional 5, nonprofessional 1, total 6; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; statistical compilations; newsletters/trade literature.

HOLDINGS: Books; reports and reprints; periodicals; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; advisory and consulting services; referrals.

OTHER SERVICES: Reproduction/publication services.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Not available.

USER QUALIFICATIONS: General technology community; government employees; government contractors.

USER RESTRICTIONS: None; federal security clearance for classified materials.

PRICING AND SERVICES CHARGES: Charge to all users for all services.

DECEMBER 1975

WASHINGTON COLLEGE

ADDRESS: Washington College
Chestertown, MD
21620

TELEPHONE: (301) 778-2800

DIRECTOR: McLain, J. H.

YEAR INFORMATION SOURCE BEGAN: 1946

MISSION: To apply scientific principles to the arts of pyrotechnics, explosives, and safety in these fields.

SUBJECT SCOPE: Aerospace explosives, pyrotechnics and initiators; Fire, explosion and detonations; Chemistry.

MAJOR SUBJECT TERMS: Explosives; Propellants; Pyrotechnics; Smoke; Chemistry.

RESEARCH AND DEVELOPMENT ACTIVITIES: Solid state chemistry; initiating chemicals; flares; propellants; smokes; pflagmatization of explosives.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext.(x)
McLain, J.	Explosives	(301) 778-2800 ext 201
Conkling, J. A.	Pyrotechnics	(301) 778-2800

STAFF: Full-time - professional 1, nonprofessional 0, total 1; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Indexes; technical reports; standards and specifications.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information; analytical studies; advisory and consulting services; referrals.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

PRIMARY SOURCE DOCUMENTS AVAILABLE ON REQUEST: Hard copy.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge for some services to qualified users.

DECEMBER 1975

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WORLD DATA CENTER A: ROCKETS AND SATELLITES (WDC-A)

ADDRESS: Goddard Space Flight Center
Code 601
Greenbelt, MD
20771

TELEPHONE: (301)982-6695

DIRECTOR: Vette, J. I.

PARENT-SPONSOR-HOST AFFILIATION: NASA; National Academy of Sciences

YEAR INFORMATION SOURCE BEGAN: 1955

MISSION: To provide an international exchange of scientific reports concerning rocket and satellite experiments, and to assist scientists in obtaining additional data.

SUBJECT SCOPE: Extraterrestrial environmental hazards; Space technology; Physics.

MAJOR SUBJECT TERMS: Extraterrestrial environments; Cosmic rays; Launching; Reactor safety; Nuclear radiation; Solar radiation; Physics; Spacecraft; Information retrieval.

STAFF SUBJECT SPECIALISTS:

<u>Name</u>	<u>Subject Specialty</u>	<u>Tel. No. and Ext. (x)</u>
Vette, J. I.	Physics	(301)982-6695
Cameron, W. C.	Magnetosphere; Physics	(301)982-4303
Chan, K.	Magnetosphere; Physics	(301)982-2133
Davis, L. R.	Magnetosphere; Physics	(301)982-5728
Dubach, L. L.	Meteorology	(301)982-4556
Hei, D. S.	Nuclear Physics	(301)982-5783
Hilberg, R. H.	Magnetosphere; Physics	(301)982-2133
Horowitz, R.	Astronomy	(301)982-4556
Kelsall, T.	Astronomy	(301)982-6045
King, J. H.	Nuclear Physics	(301)982-6314
Lease, J. C.	Meteorology	(301)982-4556
Sawyer, D.	Nuclear Physics	(301)982-2133
Schofield, N.	Magnetosphere; Physics	(301)982-2133
Stassingopoulos, E. G.	Nuclear Physics	(301)982-4067
Teague, M. J.	Magnetosphere; Physics	(301)982-2133
Wende, C. D.	Astronomy	(301)982-6045

STAFF: Full-time - professional 22, nonprofessional 0, total 22; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Book catalogs; technical reports; reference lists/bibliographies.

HOLDINGS: Reports and reprints.

REFERENCE AND QUERY SERVICES: Questions answered individually; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: All services free to qualified users.

DECEMBER 1975

YORK RESEARCH CORPORATION (YRC)

ADDRESS: One Research Drive
 Stamford, CT 06909 7100 Broadway
 Bldg 3A
 Denver, CO
 80221

TELEPHONE: (203) 325-1371 or (203) 426-1582

DIRECTOR: Govan, F. A., P.E.

YEAR INFORMATION SOURCE BEGAN: 1941

MISSION: To serve the private and public sectors in the areas of energy conservation and economic analysis, environmental testing, ambient and source pollution testing, combustion research and safety engineering.

SUBJECT SCOPE: Cryogenic safety; Combustion and ignition; Marine engineering; Energy conservation techniques; Meteorology; Analytical chemistry.

MAJOR SUBJECT TERMS: Air pollution; Combustion; Fuels; Oils; Liquified gases; Molybdenum; Compressed gas; Cryogenic fluid safety; Meteorology; Shock; Vibration; Environments; Energy; Catalysts.

RESEARCH AND DEVELOPMENT ACTIVITIES: Projects include: development of municipal solid waste (MSW) fuels, oil suspension of MSW fuels, molybdenum substitute for TEL in gasoline, sonic atomization burners, low excess air and flue gas recirculation in boiler operations.

STAFF SUBJECT SPECIALISTS:

Name	Subject Specialty	Tel. No. and Ext. (x)
Melmed, K., Dr.	Catalysts	(203) 325-1371
Monro, R.	Combustion	(203) 325-1371
Curt, R.	Economic Factors	(203) 325-1371
Kaplin, E.	Meteorology; Air	(203) 325-1371
Clingman, P.	Environments; Tests	(203) 325-1371

STAFF: Full-time - professional 55, nonprofessional 15, total 70; part-time - professional 0, nonprofessional 5, total 5.

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports and economic papers; conference papers.

HOLDINGS: Books; abstracts/indexes; reports and reprints of YRC published and conference papers.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; proposal preparations.

OTHER SERVICES: Reproduction/publication services; computer analysis and data; machine shop; instrument calibration.

USER QUALIFICATIONS: Ad hoc permission.

USER RESTRICTIONS: None.

PRICING AND SERVICES CHARGES: Charge to all users for all services (except minor services).

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